





SAR-81-02

CARPOOL PARKING IN THE TORONTO COMMUTERSHED

Transportation Energy Management Program



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CARPOOL PARKING IN THE TORONTO COMMUTERSHED

Prepared by W.R. McDougall S.E. Stewart IBI Group Toronto, Canada

Project Monitor G. Allen Research Officer

Transport and Vehicle Systems Office Research and Development Branch

August, 1980



The Transportation Energy Management Program (TEMP) Ontario Ministry of Transportation and Communications Hon. James W. Snow, Minister H.F. Gilbert, Deputy Minister

Ontario Ministry of Energy Hon. Robert Welch, Minister Malcolm Rowan, Deputy Minister

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Prepared for the Transport and Vehicle Systems Office, Research and Development Branch,
Ministry of Transportation and Communications,
in cooperation with the Ministry of energy, as
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Parking Study"
August 1980

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This study was undertaken for the Transit Systems Research and Development Office of the Ministry of Transportation and Communications, who organized and chaired a committee to review the progress and findings of the study. Members of the committee included representatives of GO Transit and the following offices of the Ministry of Transportation and Communications:

Transit Systems, Research and Development
Planning and Design, Central Region
Transit Office
Financial Assessment Office
Highway Design Office
Maintenance Department, District 6
Urban and Regional Planning Office
Traffic Engineering Office
Public and Safety Information

The assistance and guidance provided by members of this committee is gratefully acknowledged.

The recommendations of this report are those of the consultant and do not necessarily represent MTC policy.

*Now the Transport and Vehicle Systems Office

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on work trip travel demand available for the study area from the MTC. This travel demand, stratified by travel distance, was assigned to the identified major commuter routes from which areas with high travel demands were selected for subsequent site inventories. Eighteen areas were identified as having good potential for fringe parking facilities.

In undertaking the inventory of sites local officials in the identified areas were contacted and information was gathered on locations where unofficial parking was now occurring, and potential fringe parking sites such as shopping centres, churches, arenas, etc. This information, supplemented by extensive driving throughout the study area, resulted in the identification of over 150 sites. The majority of sites, approximately 100, are existing parking lots. The information gathered on the sites is summarized by major geographical area in Appendix A.

Site selection criteria were developed taking into account access, exposure, flexibility to expand, availability of servicess including local and commuter transit, etc. The sites were evaluated and ranked. Existing sites were evaluated independently of new facilities. The resulting high ranking sites and their available number of spaces was then compared to an estimate of demand for each area. It was concluded that the high ranking sites in each area could accommodate the expected demand for 1981 and in many cases for 1986. In total, 24 sites were suggested for implementation. However, many of these sites are existing lots and their use for fringe parking will depend on successful negotiations with property owners.

In light of the review of fringe parking in the U.S. and Ontario, the physical inventory of fringe parking sites and the assessment of various fringe parking issues, it is recommended that:

- 1. The recommended fringe parking lots illustrated in Exhibit 6.3 and described in Appendix A be used as an initial basis for negotiating with owners of existing parking lots and designing a new facilities program.
- 2. Where appropriate, preference be given to using existing lots through agreements with lot owners and not constructing new facilities. This approach would minimize the initial cost and risk of a fringe parking program.
- 3. The identification, promotion and operation of fringe parking lots be coordinated with the various ride-sharing programs presently operated by the Province and GO Transit.
- 4. Fringe parking facilities should be marketed and promoted as part of a comprehensive ride-sharing program. Specific consideration should be given to establishing an information/services centre where the general public and interested agencies could acquire information and assistance on all ride-sharing programs and/or public transportation.
- 5. Specific consideration be given to implementing joint use carpool and park-and-ride lots especially along commuter bus routes.
- 6. A regular monitoring program should be instituted to monitor and assess demand and user characteristics of both official and unofficial fringe parking facilities.
- 7. As fringe parking lots are implemented, especially in the Peterborough area, it will be important to assess the willingness of existing unofficial parkers to relocate from small poorly maintained lots to larger consolidated facilities. If centralized facilities result in a consolidation of demand, subsequent costs of the fringe parking program may be reduced.
- 8. Fringe parking facilities be considered as part of any construction program so that, as a minimum, appropriate grading can be done at minimal cost.



TEMP FRINGE PARKING STUDY

1. INTRODUCTION

As a reflection of higher fuel costs and the concern regarding the availability of fuels, there has been considerable emphasis placed on improving the energy efficiency of transportation systems. One method for achieving improved efficiency is through the promotion of ride-sharing.

The MTC has implemented fringe parking lots along major transportation corridors in the Toronto Centred Region as a means of promoting carpooling, and reducing safety and operational problems of carpool vehicles parked on road rights-of-way. However, because of the potential energy savings of increased carpooling, the MTC initiated this study to identify additional fringe parking lots in the Toronto Centred Region and to examine various operational issues. The study objectives were:

- 1. To identify existing parking lots and areas where new lots could be constructed for carpoolers and transit users
- 2. To review the U.S. experience with urban fringe parking.
- 3. To develop criteria which could be applied in the evaluation of fringe parking sites.
- 4. To develop a map indicating locations of proposed fringe parking lots which could be used as part of a general ride-sharing publicity campaign.

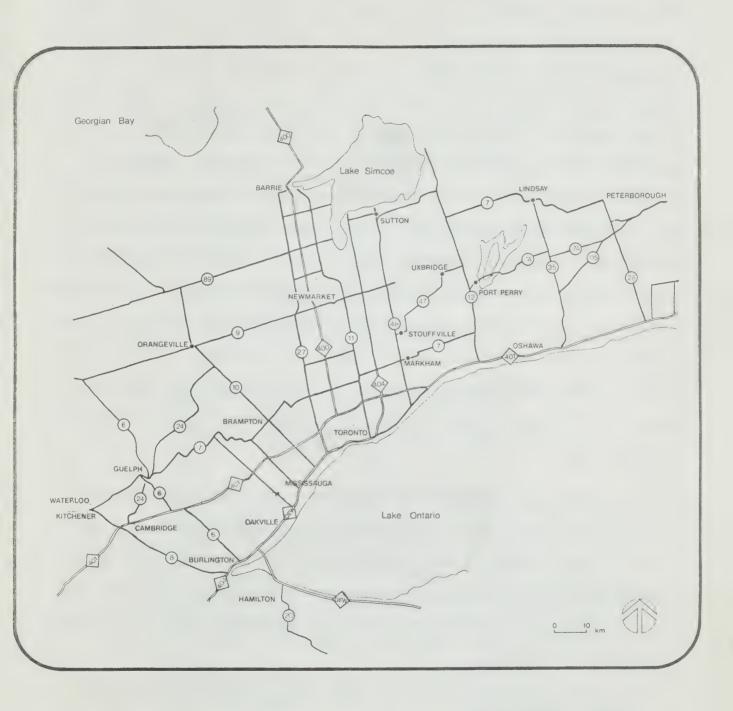
Exhibit 1.1 shows the general boundaries of the study area.

Section 2 summarizes the findings of reviewing the U.S. experience and Section 3 deals with major commuter routes and carpool parking activities currently taking place in the study area.

Section 4 provides a description of the method developed in identifying initial fringe parking areas and Section 5 summarizes the key findings of the site inventory.

Section 6 provides a summary of the site evaluation process and Section 7 contains the conclusions and recommendations.

EXHIBIT 1.1
FRINGE PARKING STUDY AREA



2. REVIEW OF U.S. EXPERIENCE

Official fringe parking programs are much more prevalent in the U.S. than in Canada. Initially, this was due to the oil embargo of 1973/74. Subsequent concern regarding the availability and cost of gasoline has resulted in even more emphasis on ridesharing as a fuel efficient mode of travel. As a consequence many transportation agencies at the Federal, State and local levels of government have initiated comprehensive ridesharing programs which include matching services, carpooling assistance, general marketing of ridesharing, preferential facilities for high occupancy vehicles and fringe parking facilities for carpooling and vanpooling. In many cases, and as will be discussed subsequently, fringe parking programs were initiated in response to unofficial carpool parking that was occurring along major commuter corridors. These programs were initiated due to safety hazards associated with vehicles parking on highway rights-of-way and as a general means of promoting ridesharing. In light of this activity there is considerable information available on experience gained by agencies in the U.S. in selecting, designing and operating fringe parking facilities.

This section summarizes characteristics of fringe parking programs operated in four States (Connecticut, Michigan, Utah and California), as well as in King County, Washington State and Knoxville, Tennessee. Each of the various programs operated by these agencies is reviewed with respect to program characteristics (number of lots and spaces, etc.) and policy characteristics (planning, marketing and financing).

Program Characteristics

Exhibit 2.1 summarizes the relevant characteristics of the fringe

parking facilities presently operated by the various agencies. As is evident in reviewing this exhibit the number of lots and associated spaces operated by each agency varies considerably; in many instances this is a reflection of, in part, program maturity, as well as the size of the particular agency. Clearly, Connecticut has one of the most ambitous programs with at present over 10,000 fringe parking spaces and an average daily demand in excess of 8,000 spaces. It is of interest to point out that when the program was initiated in 1974 the daily demand for fringe parking in Connecticut was in the order of 540 spaces.

From Exhibit 2.1 it is clear that all agencies have major expansion programs. For example, Connecticut anticipates providing an additional 4,000 spaces in 1981, a 40% increase. By 1985, Connecticut anticipates having a total of 26,000 spaces*, a 160% increase. The estimated cost of this program is \$29 million of which the Federal government will pay a major share.

Other important points illustrated in Exhibit 2.1 include:

- lot sizes range from 12 to over 500 spaces with the average size generally being in the range of 40 spaces;
- utilization is generally in the range of 60% to 80% with specific variations ranging from as low as 10% to in excess of 100%;
- most agencies combine both owned and leased lots. Generally, the reason cited for leased facilities being provided is that they may be ideally situated and are the most expeditious to implement. With regard to the latter point, arranging for a leased lot may take 90 to 120 days where as constructing a new facility may take 12 to 18 months. However, the general condition of leasing arrangements is that they can be cancelled by either party with 30 days notice. This cancellation period would not provide sufficient time to arrange for an alternate location and is considered by many to be a disadvantage of leasing;
- in many cases, the lots are intended for both park-and-pool and park-and-ride users;
- parking is provided free of charge in all cases.

^{*} Source: "The Development of a Commuter Parking Lot Program" Conn. DOT May 1980.

EXHIBIT 2.1/ U.S. EXPERIENCE PROGRAM CHANACTERISTICS (JUNE 1980)

EXPANSION PLANS	- 62 lots are planned providing an additional 4,000 - about 70% constructed this year - also have commuter rail lots	- 45 lots with 2,100 spaces programmed for implementation in near future - 65 other locations under study	- informal program, lots provided free of charge	- 1 lot to open soon - request for 8 additional lots being submitted	- 8 more lots to open shortly - goal is to put another 12 lots into operation by the end of the year	- 60 new lots with 2,000 spaces proposed - over the long term the State will construct and maintain their own lots
COMPOSITION NED LEASED	12 All Have Bus Ser- vice	E	LIN	 Z	58	20%
COMPO	_	94		4	Z	20%
AVERAGE UTILIZATION (RANGE)	%08	(10%-100%)	Unknown	75%	25%	78%
AVERAGE SIZE (RANGE)	84 spaces (12-504)	29 spaces	15 spaces	86 spaces (65-120)	41 spaces (19-111)	42 spaces
TOTAL NUMBER OF SPACES	10,285	3,000	1,200	345	830	3,000
NUMBER OF LOTS	123	105	75	4	. 50	7.1
. TANGO		Michigan	Knoxville, Tennessee	Utah	King County, Washington State	California

Policy Characteristics

As is illustrated in Exhibit 2.2, none of the agencies surveyed has developed rigid planning criteria for implementing fringe parking facilities. Generally, fringe parking facilities are provided where unofficial parking is evident with preference to sites that are serviced by local and commuter transit, and are on the inbound side of the commutershed.

Generally, fringe parking lots are marketed and operated as a component of a comprehensive ride-sharing program which includes various modes (carpooling, vanpooling, commuter transit) and a number of services such as matching and employer assistance in setting up vanpools. A recent study, Fringe Parking Lots For Carpoolers, prepared for the FHWA, concluded that coordination of fringe parking facilities with other ride-sharing programs is the most effective way of marketing the program.

As for promoting the actual parking site this is usually done through road side signs, and the distribution of maps (i.e. Exhibit 2.3) along with match lists for those interested in carpooling and vanpooling. In addition, new lots are promoted through the local media, opening ceremonies with local government officials and the distribution of maps in the windshields of vehicles evidently belonging to commuter carpoolers parked in the area. These maps can either be area-wide maps, Exhibit 2.3, or more site-specific maps, Exhibit 2.4.

In terms of funding, and with the exception of Knoxville, Tennessee, all of the programs reviewed receive Federal Government funds for capital programs associated with state and interstate highways. This Federal assistance ranges from 75% to 90% of the capital cost of the facility. Because these funds are provided for new construction, it tends to encourage agencies to build new facilities as opposed to arranging for leases which probably accounts for

POLICY CHARACLERISTICS

			0)	
	OPTENTING COSTS 185 CTC.		No maintenance done except for upkeep of signs Insurance \$50-\$70/lot per year	Insurance
1	0.25.00	Covered by regular highway maintenance No insurance policy cities pro-vide police protection when lots located within city limits	.A.	Absorbed as part of district budget
. 501151431	CONTS/YSPAHE LEASED	None	Non-profit locations eg. churches \$.75-\$1/month per space Commercial lots \$2-\$3/month/ space	t
Thancial committees	CAPITAL/LEASE OWNED	On ROW or State owned lands so far	None	\$1,000-\$1,500
	SOURCE	rederal Aid Interstate Program Some State — only funds	Federal Highway Admin. Federal Aid Urban Systems (FAUS) Funds-proportion of these funds allotted to municipalities in King County is skimmed off the top and assigned to ride-sharing programs	State Highway funds and FHWA
	FUNDING		\$60,000 Includes every- thing except consulting fees	\$2 million per year State for carpool
T Tall Jall	UTHED SERVICES	State Energy Office has car- pool matching program No interaction	Matching services	Matching services Vanpool/ buspool program
PLANNING AND PROPERTY OF CHARGETERS	MARKETING	Have just been serving existing demand	Include list of park and pool lots in Ride-Match letters Working with Metro Iransit locations of park & pool lots are included on route maps Ride-sharing is promoted in general	Marketed as part of over- all ride- sharing program Have loca- tion signs
PLANNING AN	PLANNING CRITERIA - WARRANTS	Where domand exists Needed to be within Interstate ROW for Federal funding At site: available space and traffic considerations determine exact	Locate lots Where unofficial, parking is occurring Locate on inbound side of commuter shed	Don't have rigid selection criteria Generally locate lots where unofficial parking presently occurring Preference to sites serviced by local and commuter transit with high
		Had Had	KING COUNTY WASHINGTON STATE	CALIFORNIA

EXHIBIT 2.2 (Continued)

POLICY CHARACTERISTICS

	OPERATING COSTS PER SPACE OWNED LEASED	Absorbed by maintenance department Example: \$2,500-\$5,000 annual per 300 spaces. State pays for lighting, snow removal, sweeping, line painting	Included in \$1,000,000 normal maintenance insurance Convert to which costs miles of \$75/year to road Self-insured	for free. However, lots not avoiding liability.
TERISTICS	COSTS/SPACE OPL	\$200-\$300 for Absorbed church lots maintenar \$27,500/yr. departmer for 504 spaces at Enfield \$2,500-\$ at Enfield spaces. State pay lighting removal, sweeping painting	9 lots, \$1 normalease maint 2 lots have converted pear permits converted miles pear permits self-self-self-self-self-self-self-self-	
FINANCIAL CHARACTERISTICS	CAPITAL/LEASE OWNED	Utilize own ROW \$2,000/space construction cost	Bought a few lots \$8,000-\$15,000 per acre	No cost program, lots provided publically identified, thereby
A property of the system the property of the system of the	ING	FHWA provides for salaries (2½ persons) Federal Aid Highway Act (1970) Inter (90% F State (75% F Hwy (25. S tte - \$29.6	Motor Vehicle Highway Fund (gas tax) Federal Funds for lots on Interstate Some joint funding for transit/car- pool lots - used for express bus services	Funding
	FUNDING	For 62 new lots F \$5.6 million etc. H \$6 million etc. H Planning Estimate	As justified \$250,000 \$300,000/yr.	N
ARACTERISTICS	OTHER SERVICES	Vanpool Carpool matching	Separate vanpool program Some interaction; eg. when vanpool starts up and it requires a meeting place, arrangements may be made to find suitable location	Carpool matching and vanpool programs
PLANNING AND MARKETING CHARACTERISTICS	MARKETING PROGRAM	Through news releases Some national advertising through FHWA Map included in ride- sharing publicity	Public information section puts out press release Lot identified by public carpool parking sign	Informal program No signs No liability
PLANNING AL	PLANNING CRITERIA - WARRANTS	Going through transit system to determine where lots are needed Near interchanges Where commuter trip would come from (6 mi.to lot) (25 mi.to destination) Expects these distances to shorten	No hard and fast rules Locate where demand exists Locations identified by municipalities where parking is taking place	Try to get permission from shopping centers or churches in areas where informal parking goes on
		CONNECTICUT	MICHIGAN	KNOXVILLE

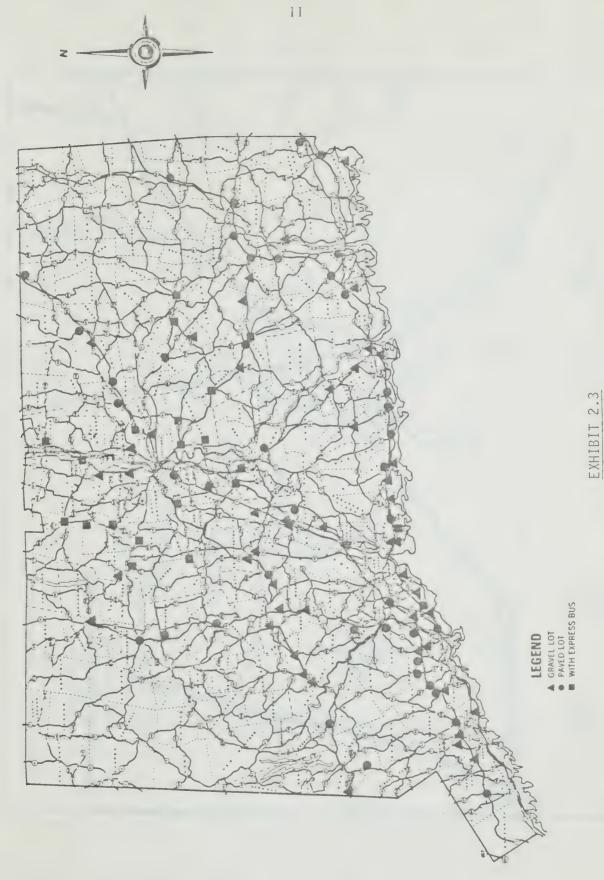
the major capital programs of some states such as Connecticut and California.

As for costs, construction costs range from \$1,000 to \$2,000 per space with leasing costs ranging from 75¢ to \$3.00 per month per space. In one instance, Knoxviile, Tennessee, no cost is incurred in leasing spaces because they are provided at no charge by the property owners.

As for operating costs per space, little information was gathered in the surveys undertaken with the various operators. Generally, when lots are leased, maintenance costs are included in the leasing agreement. As for owned facilities, information was not readily available due to the manner in which the lots are maintained and charges costed back. However, in the study, Fringe Parking Lots For Carpoolers, it was estimated that a reasonable range for maintenance costs is somewhere between \$20 and \$50 per space per year. The range is greatly influenced by the lot standards. For comparison, GO Transit paid approximately \$69 operating expenses per space in 1979 for GO parking lots.

The referenced study, Fringe Parking Lots For Carpoolers, summarizes various characteristics of over 150 lots surveyed in the U.S. The survey included both a physical inventory as well as interviews of lot users. The following provides a brief summary of relevant findings:

- 50% of the users of the fringe parking facilities previously drove alone;
- all facilities studied were within 2.6 km of a main highway;
- the greatest use of park-and-ride facilities, including carpooling, were where such facilities were located on routes
 with priority treatment for buses and high occupancy vehicles.
 In light of this point it was suggested that park-and-pool
 lots should always be designed with park-and-ride operation in
 mind;



EXAMPLE OF FRINGE PARKING LOT (Connecticut)

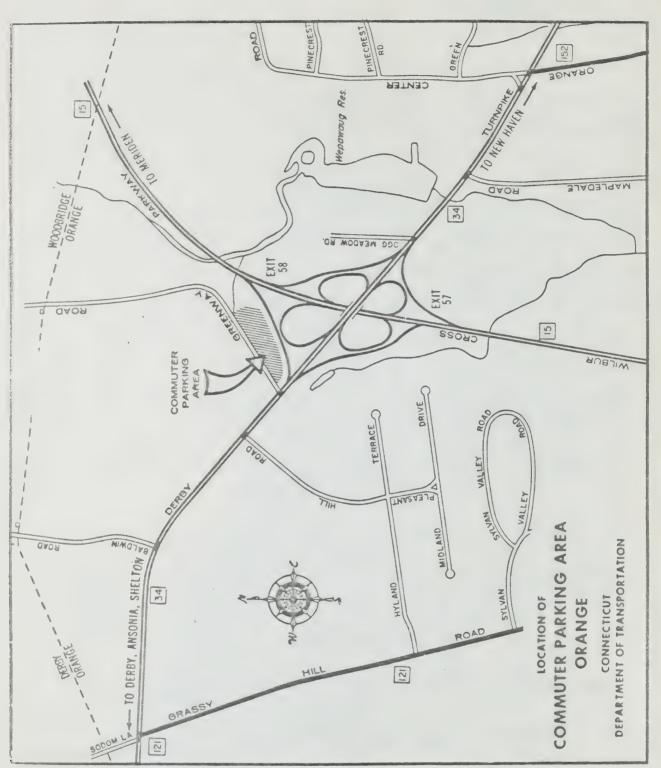


EXHIBIT 2.4 - EXAMPLE OF SITE SPECIFIC FRINGE PARKING LOT (Connecticut)

EXHIBIT 2.5

MINIMUM AND MAXIMUM DESIGN STANDARDS

ITEM ·	MINIMUM	MAXIMUM
Adequate Base	•	•
Positive Drainage	•	•
Paved Surface		•
Gravel Surface	•	
Curbing		•
Wheel Stops	0	
Guard Rail	As needed	As needed
Fencing	0	0
Lighting (+2 FC)	0	8
Marking		0
Signing	0	0
Telephones	0	0

Source: "Fringe Parking Lots For Carpoolers", FHWA, May, 1980.

- the practice in determining the size and location of fringe parking facilities was a function of the number of vehicles presently parked in the area, the availability of existing rights-of-way or locally available leasable spaces, and the designer's judgement as to potential increase in carpooling. This is in support of the findings as illustrated in Exhibit 2.2 wherein it was pointed out that the agencies contacted do not operate with rigid selection criteria and warrants;
- there was a range in design standards. These standards relate to such items as base, drainage, surface, telephones, etc. Exhibit 2.5 summarizes recommended items for minimum and maximum design standards, with it being pointed out that it is not necessarily required that the surfaces be paved and that as a minimum standard, a stone or gravel surface is adequate so long as spaces are identified with wheel curbs.

Summary

In light of the review of U.S. experience, it is apparent that:

- the various operating agencies of fringe parking carpool lots have not developed rigorous site selection criteria or implementation warrants. The standard practice is to locate lots where unofficial parking is currently occurring subject to access and safety considerations;
- the lots operated by these agencies are generally well utilized with occupancy rates generally in the range of 66%;
- the lots are a combination of both leased and newly constructed facilities. The latter is in part due to the Federal funding that is available for new construction;
- virtually all agencies have major expansion programs underway, a reflection of continued growth in demand;
- the fringe carpool lots are generally marketed and operated as part of a comprehensive ride-sharing program which includes a number of services such as matching, employer assistance in setting of vanpools, marketing, etc.

3. STUDY AREA CHARACTERISTICS

The study area characteristics have been summarized with respect to major commuter routes and carpool parking presently occurring in the area.

MAJOR COMMUTER ROUTES

An important element in identifying potential fringe parking sites is that of determining the major auto and transit commuter routes. The latter is important from the standpoint of isolating origin/destination pairs that are provided with high quality frequent commuter service (i.e. train) which are therefore not inclined to reflect a high demand for carpooling; and where lower quality service is provided (i.e. commuter bus) such that there would be the potential of combining park-and-pool lots with park-and-ride.

Other elements that were reviewed in assessing the commuter routes consisted of the proposed plans for major construction on the highways and commuter rail services, and also any service alterations that had been instituted on the commuter bus services.

Major Auto Commuter Routes

Through information gathered through interviews with MTC and local government officials as well as personal observation, the major auto commuter routes were identified. These are basically the roads indicated in Exhibit 1.1. As is evident from this exhibit, the major auto commuter routes are generally the freeways and the King's Highways within the study area. Various regional roads were identified as being important auto commuter routes, but these were generally of a secondary nature, most frequently providing feeder service to the provincial highways.

It is anticipated that in terms of construction in the next 5 years:

- The Highway 403 connection between the QEW* and Highway 401 will be completed. Some sections have been built while others are now under construction. For example the section between Highway 401 and Cawthra is now complete and the interchange to the QEW, Ford Street and Winston Churchill Blvd. is now under construction;
- Highway 410 may be extended up to Highway 7;
- Highway 427 is to be extended to Highway 7;
- Highway 400 will be extended to Eglinton Avenue as an arterial facility under municipal jurisdiction;
- Highway 404 is to be extended to Bloomington Side Road.

These projects are illustrated in Exhibit 3.1

The only other major highway construction program that would have a strategic effect on fringe parking sites is the major reconstruction of Highway 89 east of Highway 400.

From discussions with Regional and County staff no major construction is anticipated on other important auto commuter routes.

As a general consideration for all construction programs at intersections and major intersections, it would be cost effective to assess the potential for a commuter carpool lot such that, if considered appropriate, the necessary grading could be incorporated in the design and undertaken as a part of the interchange/ intersection construction. This would minimize subsequent costs if and when a carpool lot is considered necessary. An example of this approach is the fringe parking lots now being constructed as part of the 403 construction at Ford Drive and Winston Churchill Boulevard.

^{*}Queen Elizabeth Way

PETERBOROUGH LINDSAY Lake Ontario Lake Simcoe DAKVILLE HAMILTON ORANGEVILLE Georgian Bay GUELPH KITCHENER WATERLOO

- Proposed Construction :

EXHIBIT 3.1

FIVE YEAR CONSTRUCTION PROGRAM FOR MAJOR AUTO COMMUTER ROUTES

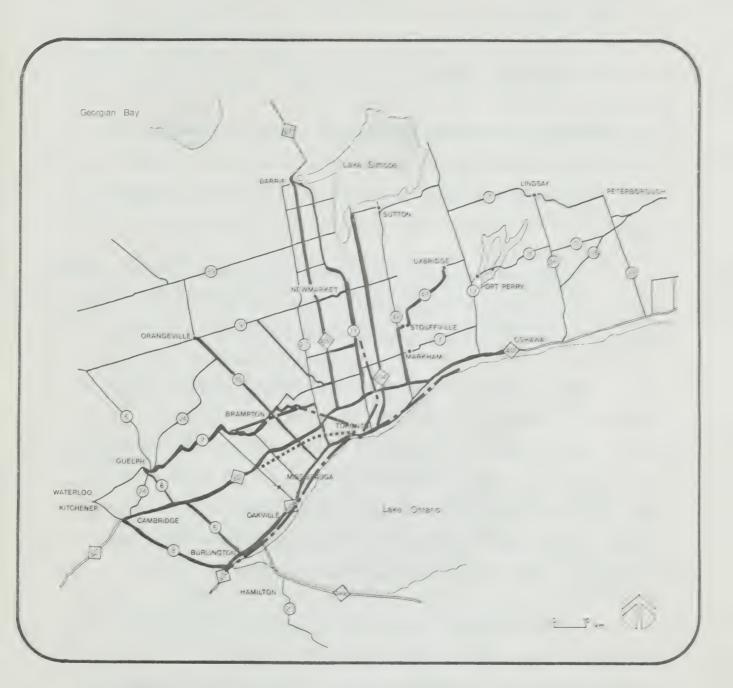
Transit Commuter Routes

GO Transit is the major commuter service provider in the study area with responsibility for providing both rail and bus services throughout the Toronto Centred Region. As is illustrated in Exhibit 3.2, the service provided by GO Transit as well as other commuter bus operators, focuses on downtown Toronto. To illustrate the magnitude of the impact of these services, GO buses carry over 25,000 passengers per weekday, while the GO Train service carries over 41,000 passengers per day. The single largest element is the Lakeshore rail passenger service between Hamilton and Pickering with weekday average ridership of approximately 34,000 passengers per day.

As is evident from Exhibit 3.2, GO bus services generally operate along the major auto commuter corridors including the QEW, Dundas Street, Highway 401, Highway 7, Highway 400, Highway 11, Highway 404, and Highway 48.

The GO stations along the major commuter corridors and especially the rail corridors presently have a parking capacity for approximately 9,700 vehicles with average weekday occupancies of 8,600 vehicles with a resulting occupancy rate of approximately 90%. There is, however, a significant range to the degree of utilization of these parking lot facilities. For example, some lots have occupancy rates of 30 to 40% (Malton station), whereas other lots have occupancy levels in the range of 130 to 140% with a resulting spillover of parkers onto adjacent residential streets. The important point in reviewing the existing GO stations and their parking lot utilization is that few of the existing lots have the potential to accommodate additional vehicles for fringe parking purposes. The Malton GO station is one existing facility with sufficient capacity to accommodate carpoolers.

EXHIBIT 3.2 MAJOR COMMUTER TRANSIT SERVICES



LEGEND:

Existing Commuter Rail

Proposed Commuter Rail

Existing Commuter Bus

There are other commuter services provided by private bus operators and CP Rail. Express bus service is provided from Kitchener-Waterloo and Guelph along the 401 to downtown Toronto. A commuter bus service operates from Orangeville, along Highway 10 to Brampton where it ties in with the GO bus service to Toronto. Also, there are commuter bus services on Highway 50 through Nashville and Woodbridge to Yorkdale, as well as a commuter service from Barrie down Highway 48 and Woodbine Avenue. There are no commuter parking facilities located along these routes nor, generally, along GO bus routes.

VIA Rail operates a commuter service from Barrie to downtown Toronto and from Peterborough to downtown Toronto. These rail services have stations that offer potential for joint use as both park-and-ride and carpool lots.

The only major proposed expansion to commuter transit involves the extension of the GO rail service to Milton. It is anticipated that this service will be in operation by the fall of 1981 with GO stations at Kipling, Dixie, Cooksville, Erindale, Streetsville, Meadowvale and Milton. Initially, this service will consist of three peak direction trains with a subsequent increase to five trains within the first few years. GO Transit does not anticipate any major expansion to the GO bus service.

As for the parking lots and future plans, it is anticipated that within the next five years an additional 2,500 parking spaces will be provided at nine locations. At the Oakville station which now has approximately 960 parking spaces, the parking lot is anticipated to increase to approximately 1,500. At the Clarkson station an additional 500 to 600 spaces is to be added to the existing 600 to 700 resulting in a total of over 1,200 spaces.

At the Pickering station an additional 170 spaces are being provided which will increase the lot to over 880 spaces. An additional 150 to 200 spaces are being considered for the Port Credit station. Additional stations to be expanded are Guildwood (+300 spaces), Burlington (+140 spaces), Old Cummer (+110 spaces), Rouge (+350 spaces) and Langstaff (+100 spaces).

In light of the present demand at the Clarkson station, average occupancy rates in excess of 100%, it is anticipated that when the additional parking spaces are provided, the majority will be occupied immediately. As for the Milton GO station, it is anticipated that with the opening of the station, the demand at the Oakville station which now has occupancy levels in excess of 100% may be shifted, thus resulting in a more equitable distribution of demand. In light of the parking demand at the stations where parking lot expansion is proposed, the expansion of these facilities offers little opportunity to accommodate carpool parkers.

CARPOOL PARKING IN THE STUDY AREA

Two major tasks were associated with reviewing carpool parking activities in the study area; the first task dealt with an analysis of demand and user characteristics of the present official MTC lots; and the second task dealt with an inventory of unofficial fringe parking sites as determined by the MTC and information provided by various local municipalities.

Characteristics of Carpoolers at MTC Lots

The MTC established official carpool parking lots (Exhibit 3.3) in the fall of 1979 located on Highway 400 at Highway 88, 9 and King City Road; on Highway 401 at Trafalgar Road and Highway 10; and QEW at Guelph Line. A temporary site at 400 and Highway 7 has also been used by carpoolers.

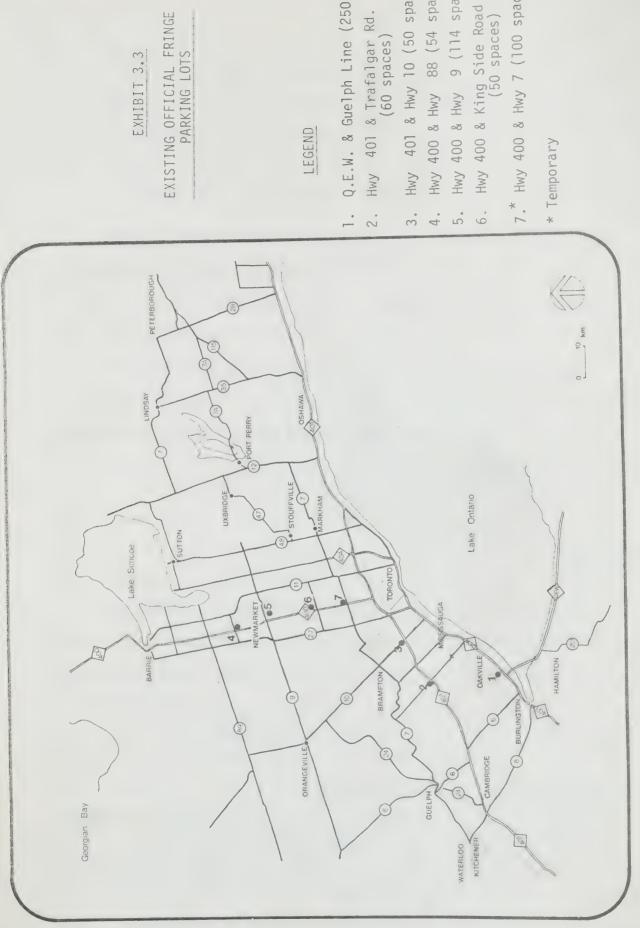


EXHIBIT 3.3

EXISTING OFFICIAL FRINGE PARKING LOTS

LEGEND

- Q.E.W. & Guelph Line (250 spcs
 - Hwy 401 & Trafalgar Rd. (60 spaces)
- Hwy 401 & Hwy 10 (50 spaces)
- Hwy 400 & Hwy 88 (54 spaces)
 - Hwy 400 & Hwy 9 (114 spaces)
- 7.* Hwy 400 & Hwy 7 (100 spaces)

The MTC undertook two surveys at the lots located along Highways 400 and 401. The surveys included:

- occupancy counts which were conducted during morning and afternoon periods on weekdays over a two week period;
- the administration of personal interviews to carpoolers to determine user characteristics.

The basic objective of the surveys was to determine the characteristics of carpoolers using the facilities. The surveys were also undertaken to assess the impact of improvements that were made to the lots during July and August of 1979. Accordingly, the "before" period data were collected during May and June, 1979 and the "after" period data were collected during October and November, 1979.

As is illustrated in the following table, the average number of vehicles parked increased by approximately 42.5%, with in some cases increases being in excess of 70%, such as at Highway 401 and Highway 10, Highway 401 and Trafalgar Road and Highway 400 and Highway 7. By contrast, some lots such as at King Side Road and 400 experienced a reduction in demand. As a general point, part of this overall increase may be attributable to the timing of the "after" count; traffic volumes are generally higher in October and November than they are during May and June due to the latter bordering on the holiday season.

On average, the MTC lots surveyed were experiencing 50% utilization factors.

Number of Vehicles Parked By Lot Location (Daily Average)

Location	Before 79-05-28 to 79-06-08	After 79-10-29 to 79-11-09	Percent Change
Hwy. 401 - Hwy. 10 Hwy. 401 - Trafalgar Road Hwy. 400 - Hwy. 7 Hwy. 400 - King Side Road Hwy. 400 - Hwy. 9 Hwy. 400 - Hwy. 88	19 13 35 17 63 14	35 23 60 14 62 20	+84% +77% +71% -18% -02% +43%
Average	26.8	35.7	+42.5%

Another point that was determined from the occupancy surveys of the lots was that generally, utilization was lower on Mondays and Fridays than during other weekdays, possibly due to flex time.

As for the personal interviews of fringe parking lot users, three lots were not surveyed during the after period. These lots were:

- the lot on Highway 9, because lot usage remained constant;
- the lot at the King City Side Road, because lot usage decreased;
- the lot at Highway 7 because lot improvements were delayed.

The response to the personal interviews was quite high ranging from 48 to 55% of the number of cars in the lot.

From the interviews it was determined that the major proportion, 72%, use the lot five times a week or more. Approximately 10% use the lot between one and four times per week and the remainder, use the lot four times per month or less. This relatively high frequency of use suggests that many commuters are strongly committed to fringe parking and carpooling.

Another important general finding from the interviews was related to trip purpose. Approximately 99% of those surveyed were making a work trip with the remaining being recreational trips. This extremely high use of the lots for work trips conforms to the frequency of use patterns previously described and the findings of U.S. experience.

One of the most significant findings from these surveys was the trip distance characteristics of fringe parking lot users. As illustrated in Exhibit 3.4, the average trip length from home to place of work was 71.5 km. This travel distance consisted of two components: home to fringe parking lot with an average distance of approximately 23.1 km and fringe parking lot to work of an average distance of 47.2 km. The average home to lot distance ranged, by lot, from approximately 16 km to 30 km. Average distances between the finge parking lot and place of work ranged from 44 km to approximately 60 km. These travel propensity characteristics support the notion that carpooling is most attractive for longer distance trips. This has an important impact on identifying fringe parking areas.

Origin/destination data were analyzed and travel routes were traced which was of some assistance in identifying major commuter routes. Also from the questionnaire information was gathered on attitudinal aspects. Wherein it was determined that a major number of users interviewed felt that a phone located at the lot would be important.

Another important finding from the analysis was that origin and destinations of users of any of the lots were diverse and well distributed

EXHIBIT 3.4

SUMMARY OF MEAN TRAVEL DISTANCES TO EXISTING MTC PARKING LOTS

(Kilometers)

LOT	HOME-LOT	LOT-WORK	HOME-WORK
Hwy. 400 and Hwy. 9	29.8	45.8	74.8
Hwy. 400 and King Rd.	30.1	44.4	74.3
Hwy. 400 and Hwy. 7	25.8	44.5	70.5
Hwy. 400 and Hwy. 88	15.8	49.0	66.1
Hwy. 10 - N. of 401	16.8	47.5	64.3
Hwy. 10 - S. of 401	17.3	60.4	77.8
Hwy. 401 and Trafalgar	27.6	49.8	77.4
Buses (400 and 9)	21.8	51.1	72.9
Overall Average	23.1	47.2	71.5

throughout the area. Contrary to expectations there were a significant number of users destined to areas other than Metro Toronto with 40% of the parking lot users destined to Toronto. As a result, the impact on traffic and parking, especially in downtown Toronto, is not significant.

Unofficial Parking in the Study Area

Two sources of information were employed in identifying unofficial parking in the study area: MTC data as gathered from surveys conducted by district staff and interviews with local government agencies. The MTC survey identified over 50 sites generally on or adjacent to provincial highways.

These sites are listed in Exhibit 3.5 and include sites that have been or are to be developed as official fringe parking sites.

From the interviews with local officials potential areas and sites were identified as either now accommodating carpool parkers or as ideally suited for potential sites with good access and exposure. Many of the sites suggested, which were subsequently included in the site inventory, were located at churches, shopping centres, community centres, arenas, etc.

As an outcome of the MTC inventory of carpool parking demand and a continuing growth in demand, the MTC is planning to construct seven additional lots as per Exhibit 3.6 with an additional 377 spaces by late 1980.

SUMMARY

The following provides a brief summary of the most important findings in reviewing the major commuter routes.

EXHIBIT 3.5

INVENTORY OF EXISTING AND POTENTIAL FRINGE PARKING SITES

(MTC Central Region, December, 1979)

	1000000	TOCACION	1000	
Q.E.W. & Dixie Road				
Q.E.W. & Cauthra Road	4700	Nighway 401 & Percy Street	47	Highway 35 & Highway 7
O.E.W. & Hiebway 10	25	Highway 401 & Highway 30	***	Mediasa 115 & Peterborough
	26	* Highway 400 & Highway 7		ccy. #10
A CE SE CHOOLE COURT OF COURT	2.7	* Highway 400 & King Sideroad	*** 67	Lighway 115 & Highway 28
Cara & Southerner Road	200	* Highway 400 & Highway 9	*** 05	Nighway 7/115 & Harper Road
A State of the Sta	29	* Highway 400 & Highway 88	51 ***	Highway 7 & Bensfort Road
	30	*** Highway 10 & Highway 7 - North Junction		
Q.E.W. & Gray's Road	31	Highway 7 & Highway 50		
Q.E.W. & Fruitland Road	32	Highway 7 & Highway 27		
Q.E.W. & Regional Road 50	e e	Highway 10 & 32nd Sideroad		
Q.E.W. & Casablanca Road	*T (*)	*** Highway 10 & Highway 24 -	*	Existing MTC Lots
Q.E.W. & Ontario Street		בר ובר מסו		- Chi
Highway 403 & Waterdown Road	35	Highway 10 & 20th Sideroad - Caledon		Committed MIC Lots
Highway 401 & Highway 6 - East Junction	36	*** Highway 10 & Highway 9 - North Junction	** **	Sites Surveyed in Inis Study
Highway 401 & Campbellville Road/Cuelph Line	37	Highway 9 & Airport Road		
* Highway 401 & Trafalgar Road	න ෆි	Highway 9 & Highway 50		
Higheny 401 & Mississauga	39	Highway 9 & Tottenham Road		
Road/Derry Road	0%	Highway 9 & Highway 27		
* Highway 401 & Highway 10	7 7	Highway 48 & Aurora Sideroad		
Highway 401 & Highway 2	77	*** Highway 7/12 & Highway 47		
** Highway 401 & Highway 28	4.3	*** High ay 35/115 & Clarke		
Highway 401 & Burnham Road		400 Line		
** Highway 401 & Highway 45	77	Highway 115 & Durham Road #9		
	<i>U</i> /	+++ Michan 35 & Victoria Road 12		

 *** Highway 35 & Highway 7A - South Junction

COMMITTED MTC LOTS (1980)

Proposed MTC Official Lots

1. Hwy 401 & Hwy 6 (50 spaces)

& W.Churchill (42 spaces) & Ford Dr. (49 spaces) QEM

Hwy 400 & Innesfil(37 spaces) Beach Road.

Hwy 400 & Hwy 89 (49 spaces)

7. Hwy 401 & Hwy 45 (100 spaces) 401 & Hwy 28 (50 spaces) 6. Hwy

ETERBOROUGH LINDSAY ake Simcoe HAMILTON ORANGEVILLE Georgian Bay WATERLOO

29

- the major auto routes are generally the major freeways and King's Highways in the study area. Regional roads are also important but generally as feeders to the provincial highways;
- where the Province is planning to construct new interchanges and/or intersections, consideration should be given to providing fringe parking lots such that the necessary grading can be initiated at the time of construction thereby minimizing any subsequent capital cost of building a parking lot;
- except for the extension of the GO train service to Milton, there are no major changes anticipated to the commuter bus and rail service;
- in light of the high level of demand for parking at GO train stations, there is little opportunity to accommodate carpool parkers. There is, however, an opportunity to allow for joint use carpool and park-and-ride facilities along the commuter bus routes.

The following summarizes the characteristics of fringe parking lot demand and user characteristics:

- the information on the needs and characteristics of carpool lot users is rather limited and therefore the procedures to select and locate lots is still in the developmental stages. Accordingly, it would be appropriate to institute a regular monitoring program of demand and user characteristics at official and unofficial lots. This monitoring should consist of four seasonal counts for a typical week at official lots and user surveys at a selected sample of official and unofficial lots each year. Each of these surveys should be conducted, as appropriate, before and after a new lot is established. Exhibit 3.7 provides a sample questionnaire that might be applied in the user survey;
- there has been a significant growth in carpool parking activity at official MTC Lots. Over a five month period there was a 42.5% growth in weekday carpool parking. This growth consisted of some relocating of previous carpoolers to the improved lot but was primarily attributable to a continued growth in carpool parking demand which is consistent with demand patterns in the U.S.;
- the major population (99%) of carpool parkers were making work trips which thus accounts for the high proportion of users, 72%, who use the lot five times or more per week;

- trip distance characteristics pointed out that the average travel distance between home and place of work was 71.5 km of which 1/3 was the distance between home and lot and the remainder between the lot and place of work. This suggests that the closer the lot is located to the home the higher the propensity to use the lot. However, offsetting this is the fact that potential users in a community may not be able to acquire a convenient carpool match at a local lot and therefore amy be required to travel a considerable distance to other locations to acquire a match;
- regular inventories of unofficial parking activity should be continued as a means of identifying the quantity and location of demand.

FRINGE PARKING LOT USER QUESTIONNAIRE

Your response to this survey would be appreciated. Thank you for your help!

Approximate distance from home	to lot is		Kilometers
 How many persons, if any, do y to this lot? 	ou pick up in th	ne morni	ng on your way
3. How do you usually arrive at t	this lot in the m	morning?	
			By walking
In a parking auto			Other (please describe
Dropped off by auto	0		Other (predoctor)
By transit		and other special	
* If you ride transit to your fin			
 If you are the driver today, in your carpool or vanpool 			
when leaving this lot this mo	rning?	Returni	ng this afternoon?
5. What is (was) the purpose of			
Work (address)			
School (address)			
Other (purpose)			
/ ()			
Approximate distance from lot	to final destir	nation i	s Kilometers
6. How many days per week do you	i travel from th	is lot t	o your illiai desitate on 23
Carpool day/week			day/week
Vanpool day/week	0.	ther (sp	day/week.
final destination?	e, how did you g	enerally	/ travel from home to
final destination? Drove aloneother p		enerally	/ travel from home to
final destination? Drove aloneother p Rode transit	ersons		/ travel from home to
final destination? Drove aloneother p Rode transit	ersons		
final destination? Drove alone Drove withother p Rode transit Other (specify) 8. Why do you carpool, vanpool,	ersons or ride transit	t from t	his lot? (Rank in order
final destination? Drove aloneother p Rode transit Other (specify) 8. Why do you carpool, vanpool, of importance, with a "1" as	ersons or ride transit	t from t	his lot? (Rank in order
final destination? Drove aloneother p Rode transit Other (specify) 8. Why do you carpool, vanpool, of importance, with a "1" as To avoid traffic	ersons or ride transit most important congestion	t from t	his lot? (Rank in order Cost of driving alone (gas, tolls, etc.) Companionship
final destination? Drove alone Drove withother p Rode transit Other (specify) 8. Why do you carpool, vanpool, of importance, with a "1" as To avoid traffic Can use carpool;	ersons or ride transit most important congestion priority lanes	t from t	his lot? (Rank in order Cost of driving alone (gas, tolls, etc.)
final destination? Drove aloneother p Rode transit Other (specify) 8. Why do you carpool, vanpool, of importance, with a "1" as To avoid traffic	ersons or ride transit most important congestion priority lanes at destination	t from t	his lot? (Rank in order Cost of driving alone (gas, tolls, etc.) Companionship
final destination? Drove aloneother p Rode transit Other (specify) 8. Why do you carpool, vanpool, of importance, with a "1" as To avoid traffic Can use carpool parking shortage Cost of parking a	ersons or ride transit most important congestion priority lanes at destination at destination	t from t	his lot? (Rank in order Cost of driving alone (gas, tolls, etc.) Companionship Other reason (specify)
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final destination? Drove aloneother p Rode transitOther (specify) 8. Why do you carpool, vanpool, of importance, with a "1" as To avoid traffic Can use carpool parking shortage Cost of parking a Cost of parking a Advertising	ersons or ride transit most important congestion priority lanes at destination at destination eatures of this Good	etc.) parking Fair	his lot? (Rank in order Cost of driving alone (gas, tolls, etc.) Companionship Other reason (specify) lot: Poor
final destination? Drove alone Drove withother p Rode transit Other (specify) 8. Why do you carpool, vanpool, of importance, with a "l" asTo avoid traffic Can use carpool parking shortage Cost of parking a	ersons or ride transit most important congestion priority lanes at destination at destination eatures of this Good Good	t from t etc.) parking Fair Fair	his lot? (Rank in order Cost of driving alone (gas, tolls, etc.) Companionship Other reason (specify) lot: Poor Poor
final destination? Drove alone	ersons or ride transit most important congestion priority lanes at destination at destination eatures of this Good Good Good	t from t etc.) parking Fair Fair	his lot? (Rank in order Cost of driving alone (gas, tolls, etc.) Companionship Other reason (specify) lot: Poor Poor
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final destination? Drove alone	ersons or ride transit most important congestion oriority lanes at destination at destination eatures of this Good Good Good Good Good Good	parking Fair Fair Fair Fair Fair	his lot? (Rank in order Cost of driving alone (gas, tolls, etc.) Companionship Other reason (specify) lot: Poor Poor
final destination? Drove alone Drove withother p Rode transit Other (specify) 8. Why do you carpool, vanpool, of importance, with a "l" as To avoid traffic Parking shortage Cost of parking a Please rate the following for the cost of parking and the cost of parking as a cost of parking	ersons or ride transit most important congestion priority lanes at destination at destination eatures of this Good Good Good Good Good Good Good Goo	parking Fair Fair Fair	his lot? (Rank in order Cost of driving alone (gas, tolls, etc.) Companionship Other reason (specify) lot: Poor Poor Poor Poor Poor Poor
final destination? Drove alone	ersons or ride transit most important congestion oriority lanes at destination at destination eatures of this Good Good Good Good Good Good Good Goo	parking Fair Fair Fair Fair Fair Fair	his lot? (Rank in order Cost of driving alone (gas, tolls, etc.) Companionship Other reason (specify) lot: Poor Poor Poor Poor Poor Poor Poor
final destination? Drove alone Drove withother p Rode transit Other (specify) 8. Why do you carpool, vanpool, of importance, with a "l" as To avoid traffic Parking shortage Cost of parking a Please rate the following for Advertising Directional signs Ease of entering & exiting Parking layout Lot surfacing Lighting & security	ersons or ride transit most important congestion oriority lanes at destination at destination eatures of this Good Good Good Good Good Good Good Goo	parking Fair Fair Fair Fair Fair Fair Fair	his lot? (Rank in order Cost of driving alone (gas, tolls, etc.) Companionship Other reason (specify) lot: Poor Poor Poor Poor Poor Poor Poor Poor Poor Poor
final destination? Drove alone	ersons or ride transit most important congestion oriority lanes at destination at destination eatures of this Good Good Good Good Good Good Good Goo	parking Fair Fair Fair Fair Fair Fair Fair	his lot? (Rank in order Cost of driving alone (gas, tolls, etc.) Companionship Other reason (specify) lot: Poor Poor Poor Poor Poor Poor Poor Poor Poor Poor

4. SELECTION OF FRINGE PARKING AREAS

Prior to conducting the physical inventory of fringe parking lots, a procedure was developed to identify areas that were potentially well suited to fringe parking. This provided a structured format to the analysis which was important because of the size of the study area. This section provides a brief description of the procedure developed and the resulting areas identified.

From the review of fringe parking lot facilities both in the U.S. and on the present MTC facilities, it was determined that the two major characteristics of users are:

- approximately 95% of all users are making work trips;
- the travel distances between place of residence and work average 70 km. with the average distance from place of residence to the lot being approximately 20 km. and the distance from the lot to the place of work being approximately 50 km. With these two important characteristics a procedure was developed to identify initial carpool parking lot areas.

The importance of these characteristics is that work trips and travel distances are generally modelled as part of the transportation planning process. Accordingly, a procedures was developed to identify potential fringe parking areas based on planning data. The base data were provided through the TARMS* model, supplimented as appropriate with additional data for areas beyond the TARMS area. The procedure developed, incorporated the following steps:

^{*}Toronto Area Regional Model Study

- 1. Acquiring from the MTC the 1986 person-trip work table for the TARMS area. For areas external to TARMS but within the study area, 1976 AADT work trip tables were provided by the MTC. These were adjusted to reflect person trips. A 57 zone system was developed to provide the basis for summarizing the travel data.
- 2. Travel time and travel distance data were acquired for the aggregated 57 zone system defining the study area. These were subsequently stratified by trip distances less than 40 km, between 40 and 56 km, between 56 and 72 km and for trips over 72 km.
- 3. O/D pairs with high quality and frequent transit service which would not therefore reflect a high demand for carpool parking facilities, were eliminated from further analysis.
- 4. A simplified road network was developed for the study area reflecting generally, the major commuter corridors previously identified.
- 5. Each of the stratified trips over 40 km were manually assigned to the road network and aggregated along the road corridors to provide work trip person demand by major highway corridor.
- 6. Areas where a significant number of trips originated from or where a significant number of trips converged were identified as being potentially suitable for carpool parking facilities.

From this procedure three exhibits were developed: a person work trip assignment (TARMS) for all trips except those outbound from Toronto, Exhibit 4.1; a person work trip assignment for trips (TARMS) outbound from Toronto, Exhibit 4.2; and person work trip assignment for trips originating from areas external to the TARMS area, Exhibit 4.3.

For each of the identified areas, as in item 6 above, the person trip demand and person trip kilometres were calculated. Exhibit 4.4 summarizes these estimates as well as the major trip destinations for each of the areas.

Of major interest in reviewing Exhibit 4.4 is the fact that Metro
Toronto generates a number of trips to areas beyond Metro and is the largest
generator of longer distance trips, and thus would seem well suited to
carpool lots. However, because carpool parking may be occurring within the

EXHIBIT 4.1

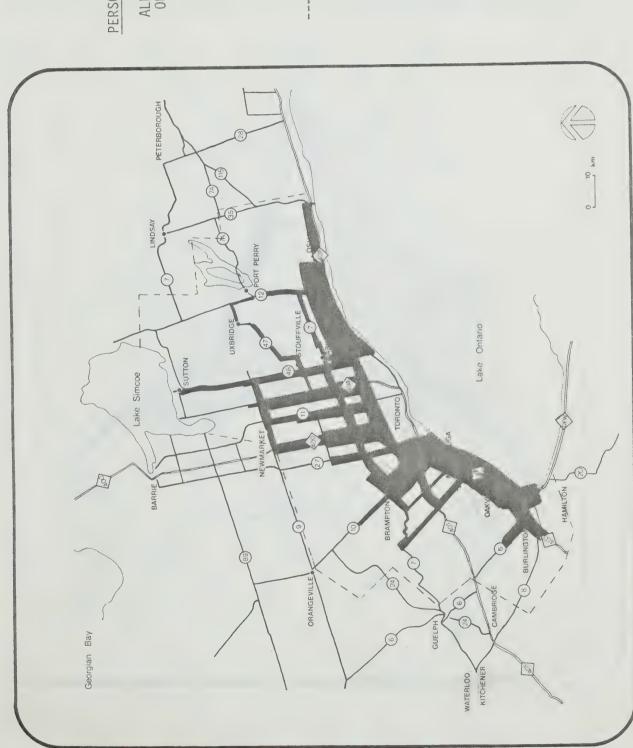
PERSON WORK TRIP ASSIGNMENT

ALL TARMS TRIPS EXCEPT OUTBOUND FROM TORONTO

1986

---- Approximate TARMS Boundary

35



10 000 person trips

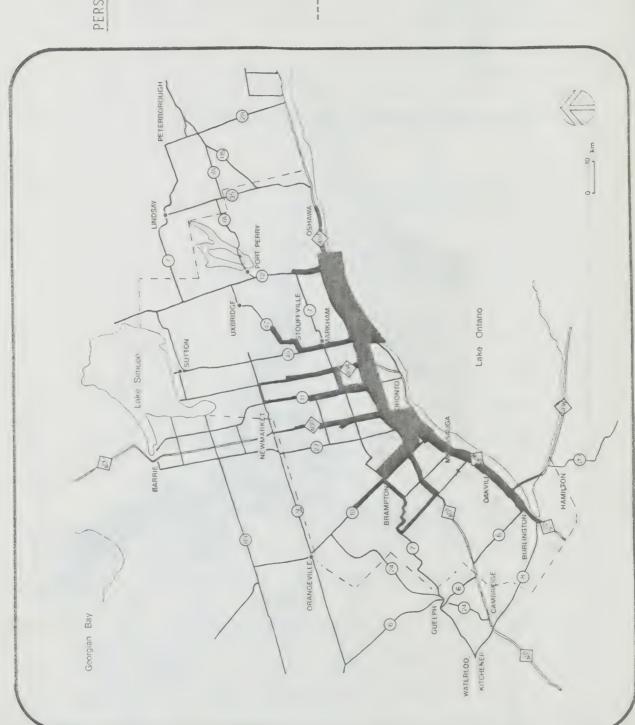


EXHIBIT 4.2

PERSON WORK TRIP ASSIGNMENT

(TARMS)

OUTBOUND FROM TORONTO

1986

---- Approximate TARMS Boundary

10 000 person trips

---- Approximate TARMS Boundar

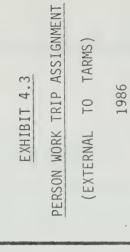




EXHIBIT 4.4/ SUMMARY OF PERSON TRIP WORK DEMAND/PERSON TRIP KILOMETRES

(Work Trips Greater than 40 km

1986

PARKING AREA	PER TRIP DEMAND	PERSON TRIP KILOMETERS	MAJOR DESTINATIONS
Hamilton	7,400	466,500	Southwest Metro; Central Mississauga; Central Halton Region (incl. Milton)
Guelph, Cambridge and	5,460	437,562	Hamilton-Wentworth Region; South- west Metro; Northwest Metro
Acton (Hwy 7 & Hwy 25)	1,800	99,100	South Central Metro; Southwest Metro; North Mississauga
Georgetown (Hwy 7 between RR 3 & RR 19)	1,800	97,400	Northwest Metro; Southeast Metro; Town of Vaughan
Orangeville	2,330	145,893	Brampton; Mississauga; Toronto
Brampton (Hwy 10 & Hwy 7)	5,150	273,300	Southeast Metro; South Central Metro; Southwest Metro; Northwest Metro
Barrie	1,180	100,500	Northwest Metro; Southwest Metro; South Central Metro
Township of Georgina (Hwy 48 between RR 32 & RR12)	3,850	204,900	Uxbridge; Markham; Aurora; Richmond Hill
Keswick (RR 8 from RR 32 to RR 12)		*	
Township of Gwillimbury (Hwy 48 between RR 31 & RR 32)	1,960	95,060	Southeast Metro; Northeast Metro; Markham
Newmarket (Hwy 9 and Hwy 11)	5,100	130,400	Northwest Metro; Southwest Metro; South Central Metro
Aurora (Hwy 11 and RR 15)	820	38,900	Southeast Metro; Southwest Metro
Stouffville (Hwy 47 and Hwy 48)	2,200	112,200	South Central Metro; Northwest Metro; Southeast Metro
Markham (RR 8, Hwy 7 to RR 40)	3,200	151,500	Southwest Metro; South Mississauga
Port Perry (Regional Road 2 - Hwy 7)	3,400	119,000	Oshawa
Peterborough	540	42,400	Oshawa
Oshawa (Hwy 401 - Interchanges 67-72)	10,700	497,600	.Southeast Metro; Northeast Metro; Southwest Metro
Whitby/Ajax (Hwy 401 - Interchanges 65 & 66)	2,300	121,300	Southwest Metro; Northwest Metro
Metro Toronto (Hwy 401 - DVP to Hwy 2)	10,000	479,640	Oshawa; Pickering-Ajax; North Pickering (incl. Claremont); Uxbridge
Metro Toronto (Hwy 401 - 427 - DVP)	11,300	544,000	North Mississauga; Central Halton Region (incl. Milton); Central Mississauga; Brampton-Bramalea

^{*}Don Valley Parkway

Metro Toronto area and because it does not now seem to be a problem in terms of safety or supply, there may not be a strong need to provide exclusive facilities. An inventory of sites was undertaken for the Metro area, concentrating on the 401 corridor, although not included in the evaluation of recommended sites.

Another point that became evident in reviewing Exhibit 4.4 and the preceding assignments was that in some of the smaller areas such as Acton and Georgetown, the need for a fringe parking lot could be reduced due to the possibility of carpoolers being picked up and dropped off at their place of residence.

Exhibit 4.5 illustrates the areas initially identified as having good potential for fringe parking lots. As is evident from this exhibit, the areas are distributed throughout the study area and are generally along the major commuter corridors. These areas did not include potential sites adjacent to Highway 400 (except near Barrie); Highway 401 between Highway 427 and Cambridge; and the Queen Elizabeth Way between Toronto and Hamilton. These latter areas were not surveyed due to the fact that MTC staff had already conducted an inventory of sites, on MTC property, in these corridors to determine the 1980 commuter parking lot construction program. Sites chosen for construction were largely based on the actual number of cars parking in those locations.

In some areas, such as Hamilton and Guelph, two sub-areas were identified as having potential for fringe parking, due to the highway network configuration and associated travel patterns. The areas identified provided a basis for conducting the surveys but, as will be pointed out in subsequent sections, these areas were extended as a result of discussions with local officials and, in some cases, combined where it was considered appropriate.

EXHIBIT 4.5

INITIAL SELECTION OF FRINGE PARKING AREAS

Cambridge-Guelph

Hamilton

Orangeville

Halton Hills

Brampton

Barrie

Newmarket

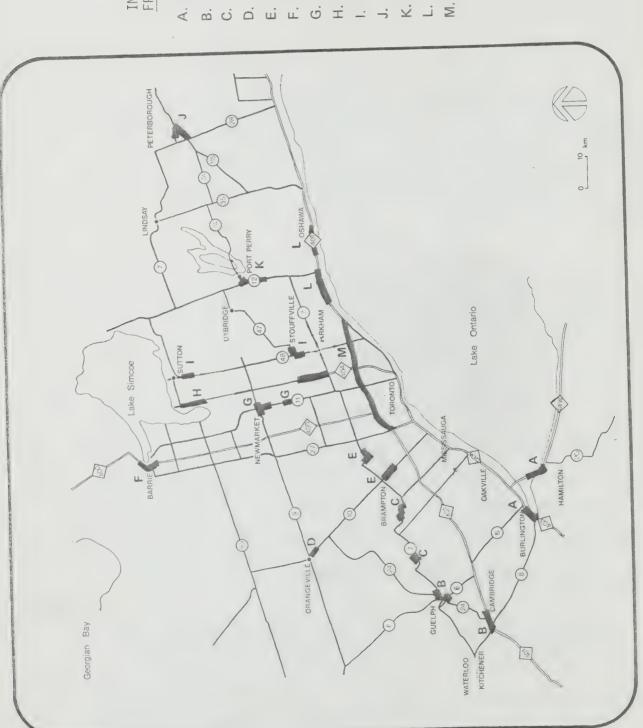
Regional Road 8

Highway 48

Peterborough Port Perry

Oshawa-Whitby-Ajax

Toronto



5. SITE INVENTORY

Site inventories were initiated by contacting local government officials for the previously identified areas. Information was solicited on where unofficial carpool parking was occurring or on sites such as arenas, shopping centres, etc., which might be ideally situated for fringe parking. These enquiries often resulted in sites being identified in areas other than those originally proposed in Exhibit 4.5.

An inventory sheet was completed for each site (Exhibit 5.1); each of these provide the locational description of the lot including the schematic layout, a description of physical characteristics, transit service characteristics and environmental impacts. Photographs were taken of each site and were included with the inventory sheets.

Approximately 150 potential fringe parking lots were surveyed. The distribution of these lots by area is indicated in Exhibit 5.2 and a summary of specific site characteristics is contained in Appendix A.

The following provides a brief summary of the inventory by geographical area.

A <u>Hamilton</u>

Two areas in Hamilton were surveyed: the Highway 403 corridor near the Main Street and King Street interchanges and the Q.E.W. corridor between Highway 20 and Fruitland Road. Eight sites were surveyed of which four are existing lots. The available number of carpool spaces per lot ranges from 30 to over 100 with generally no capabilities for expansion. Site access and exposure was generally good with most existing lots having good drainage and asphalt surfaces. All sites were serviced by Hydro and telephone lines. Only those lots along the Highway 403 corridor were adjacent to local and commuter transit services.

EXHIBIT 5.1

FRINGE PARKING INVENTORY SHEET

				,
LOT:				
TYPE:				
LOCATION:				
OWNER:				
ADDRESS:				
TOTAL NO. OF SPACES:	A S	VAILABLE SPACES:	Ε	
ULTIMATE NO. OF	SPACES:			_
EXPOSURE:	GOOD	FAIR	P00)R
ACCESSIBILITY:	GOOD	FAIR	P00)R
SURFACE TYPE AND CONDITION:				
DRAINAGE:	GOOD	FAIR	POO)R
HYDRO:	YES	NO	DIST.	
BELL:	YES	NO	DIST.	
ADJACENT TO TRANSIT: L	OCAL:	YES	NO	DIST.
COMM	UTER:	YES	NO	DIST.
IMPACT ON ADJAC PROPERTY:	ENT	YES	NO _	
ENVIRONMENTAL II	MPACT:			
IMPROVEMENT REQ	UIREMENTS:			
REMARKS:				

EXHIBIT 5.2

POTENTIAL FRINGE PARKING LOTS
INVESTIGATED

		SI	TES	
	AREA	EXISTING LOT	VACANT LOT	TOTAL
А	HAMILTON	4	4	8
В	CAMBRIDGE/	6	2	8
	GUELPH			
С	HALTON HILLS	4	1	5
D	ORANGEVILLE	7	1	8
E	BRAMPTON	5	1	6
F	BARRIE	4	2	6
G	NEWMARKET	5	1	6
Н	REGIONAL ROAD 8	11	4	15
1	HIGHWAY 48	10	6	16
J	PETERBOROUGH	4	11	15
К	PORT PERRY	1	8	9
L	OSHAWA	13	5	18
M	TORONTO	27	3	30
	TOTAL	101	49	150

None of the lots surveyed would impact adjacent property if converted to fringe parking use. No unofficial carpool parking was detected at any of the sites.

B Cambridge/Guelph

The sites surveyed in Cambridge and Guelph were combined into one area as a result of information provided by local officials. In total 8 lots were surveyed of which 6 were existing parking facilities. Available capacities range from 10 to 100 spaces. All of the smaller lots can be expanded to over 30 spaces. Unofficial carpool parking was detected at 3 sites adjacent to Highway 401. All sites had good exposure access, fair to good surface characteristics. With one exception all sites were adjacent to Hydro and Bell lines. None of the sites were adjacent to commuter bus services but 3 sites, 2 in Cambridge and 1 in Guelph, were adjacent to local transit. Except for one site in Cambridge none of the lots would impact adjacent property.

C Halton Hills

The sites surveyed in Georgetown and Acton were combined and summarized as Halton Hills. In total 5 lots were surveyed of which 4 were existing parking lots. The number of available spaces for carpooling range from 20 to over 100. In most cases there is little potential to expand the lots. Exposure was generally fair to good with the exception of the Georgetown GO station which had poor exposure. Access for all lots ranged from fair to good with surface types ranging from fair gravel surfaces to good asphalt. All sites were adjacent to Hydro and Bell services with only 4 sites adjacent to commuter transit. Two sites in Georgetown would have an impact on adjacent property.

No sites were identified in Acton. It was suggested by local officials that carpoolers in Acton generally be picked up and dropped off at their place

of residence.

D Orangeville

Eight sites were surveyed in Orangeville of which 7 were existing lots. Generally these lots had 20 to over 100 available spaces and with the exception of 2 new construction sites had no capabilities to expand. Access was good at all sites. Exposure was good at all sites except for those located in Orangeville. All sites were adjacent to Hydro and Bell services. Only one site on Highway 10 was adjacent to commuter transit. None of the sites surveyed would have a detrimental impact on adjacent property.

E Brampton

Six sites were surveyed in Brampton, generally along Highway 10, Highway 7 or Steeles Avenue. Five of the sites were existing parking lots each with 20 to over 100 spaces available for carpooling. All sites had good access and exposure with fair to good surface characteristics and drainage. Hydro and Bell services are adjacent to all sites as is commuter transit. Five of the sites are also serviced by local transit. None of these sites would have any impact on adjacent property. No unofficial carpool parking was detected at any of these sites.

F Barrie

Six sites were surveyed in Barrie, generally along the 400 corridor. Four of these sites are existing lots. With the exception of one site on Essa Road, each site has in excess of 50 spaces available for carpooling. Exposure and access are generally good for all sites as are the surface characteristics. All lots are adjacent to Hydro and Bell services. None of the lots is adjacent to commuter transit services although three are provided with local transit services. None of the lots would have an adverse impact on adjacent property.

Only one lot, on Essa Road, has unofficial carpool parking.

It was pointed out by local officials that many commuters from Barrie currently use the MTC fringe parking facilities located on Highway 400.

G Newmarket/Aurora

As a result of information provided by local officials, these two areas were combined when the inventory of sites was conducted. The six sites surveyed were generally along or adjacent to Highway II. Five of the sites are existing parking lots. All sites have the capability to accommodate in excess of 50 vehicles, taking into account expansion. Access is good for all sites with exposure ranging from fair to good. Surface characteristics of the existing lots range from fair gravel to good asphalt. All sites have good drainage and are adjacent to Bell and Hydro services and local transit. In addition, 5 of these sites are adjacent to commuter transit services. None of these sites would have an adverse impact on adjacent property. No unofficial carpool parking was detected.

H York Regional Road 8 (Woodbine Avenue)

Initially two sections of Regional Road 8 were identified for the survey: the section in Georgina Township north of Regional Road 32 and the section between Highway 7 and Regional Road 40. However, these areas were combined and all of Regional Road 8 was surveyed between Highway 7 and the Georgina Civic Centre.

In total 15 sites were surveyed along Regional Road 8. Eleven of the sites are existing parking lots with generally in excess of 20 spaces available for carpool parkers. Access and exposure was good for the 11 sites directly adjacent to Regional Road 8. Surface characteristics range from poor soil to

good asphalt. All sites were directly adjacent to Bell and Hydro services with 11 sites being directly adjacent to commuter transit services. With one exception, none of the sites surveyed would have any measurable impact on adjacent property. Six of the sites surveyed presently have unofficial parking activity.

I Highway 48

Initially two sections of Highway 48 were to be surveyed: the section of the highway in Georgina Township and the section between Stouffville and Markham. As a result of information provided by local officials the area was extended to include all of Highway 48 between Sutton and Markham.

In total 16 sites were surveyed on or adjacent to Highway 48. Ten of these sites are existing parking lots. Most sites had a minimum available capacity for 30 vehicles taking into account expansion possibilities. All sites had good access and generally good exposure. Surface types range from poor soil to good asphalt with most sites having fair to good drainage. All sites were adjacent to Hydro and Bell services and commuter transit. None of the lots were serviced by local transit. Six of these sites would have an impact on adjacent property if developed as a carpool site. Five of the sites had unofficial carpool parkers.

J Peterborough and Highways 15 and 115

Initially, it was proposed that the inventory of sites only be conducted in the area immediately south of Peterborough. However, based on the information provided by local officials and the obvious fringe parking activity along Highways 15 and 115, the study area was expanded to include Highways 115, 315 and Highway 7 between Peterborough and Highway 401. It was pointed out from

discussions with local officials that many of the residents in the area surrounding Peterborough commute to the auto assembly plants in Oshawa. Because of the nature of their work these people are ideally suited to carpooling.

In conducting the survey, 15 locations were identified as being potential fringe parking sites. The majority of lots, 11, would require new construction although in some cases the sites are now being used by carpoolers. The majority of the lots surveyed have the potential to accommodate a minimum of 20 to 30 vehicles, with all identified sites having good exposure and access. Drainage at most sites is good with soil conditions ranging from fair to good. All sites are adjacent to Hydro and Bell services but none have local or commuter transit services. With one exception, all sites would not adversely impact adjacent property. Of the 15 sites surveyed, seven are currently used by unofficial carpool parkers with a total of 70 vehicles having been identified through the course of conducting the inventory.

K Port Perry

Nine sites were identified in the Port Perry area, generally along or adjacent to Highway 7A and Durham Road 19. Only one of the sites was an existing parking lot with 25 to 30 available spaces for carpoolers. Most of the other new construction sites had a potential minimum capacity of 20 vehicles. All sites had good access and exposure with generally good soil and drainage conditions. Also, all sites were adjacent to Hydro and Bell lines. None of these sites was adjacent to local commuter transit. Only two sites would potentially have an adverse impact on adjacent property if developed as a fringe parking lot.

L Oshawa/Whitby/Ajax

All previously identified areas east of Toronto along the 401 corridor were combined into this area. This was done as a result of comments provided by local officials and the nature of urban development in the area.

The 18 lots surveyed were generally within 1/2 mile of the 401 and in close proximity to major interchanges. Thirteen of the sites are existing parking lots with all lots having a minimum potential capacity of 30 spaces.

All sites had good exposure and access with surface characteristics ranging from poor soil to good asphalt. All sites were adjacent to Hydro and Bell lines. Many of the lots were adjacent to local or commuter transit with 2 lots in Oshawa being adjacent to both. Only 2 of the sites would have a detrimental impact on adjacent property if developed as a fringe parking lot site. Only 2 sites were identified as presently accommodating unofficial carpool parkers.

M Metro Toronto

Over 30 sites were identified as being potential carpool parking areas along the 401 corridor between Morningside and Dixon Road. Generally these sites were in close proximity to major interchanges. All but 3 of the sites are existing parking lots and all of the sites have the capability to accommodate approximately 20 carpool vehicles. With a few exceptions site exposure and access was good with surface conditions generally being good quality asphalt. All sites were adjacent to Hydro and Bell lines and local transit. A few locations were also serviced by commuter transit. With a few exceptions none of these sites would have a detrimental impact on adjacent property. Unofficial carpool parking was not detected at any of the locations surveyed.



6. SITE EVALUATION

Exhibit 6.1 provides a brief description of the criteria developed to evaluate the various sites. As is evident from this exhibit, the evaluation criteria deal with access to the lot, exposure, potential to expand, environmental/community impact, availability of local transit and commuter bus services, and the potential for a particular site to alleviate existing safety or operational problems. Parking lot size standards were adopted. Any existing lot of less than 20 available spaces and any new construction lot of less than 30 potential spaces was not considered in the evaluation.

The evaluation process involved evaluating each site against the other in each area. For a particular criterion the better site would be awarded a value of 1 and the other site zero. Once all criteria were considered, the better site was determined by the highest score. The process was continued until all sites had been compared to each other. The sites were then ranked according to the number of occasions a site was considered better. These rankings are contained in Appendix A.

Existing lots and new construction lots were evaluated and ranked separately for each area.

The next step involved identifying the potential demand for fringe parking facilities. This was done by deriving an index relating the number of identified unofficial carpool parkers to the estimated person demand. The index derived was approximately eight spaces per 1,000 person trips, based on the 30 unofficial parkers observed in Georgina Township and the estimated person trip demand of approximately 3,800.

EXHIBIT 6.1

EVALUATION CRITERIA

- Proximity to existing unofficial carpool parking areas: The existence of carpool parking along roadsides or in church and restaurant parking lots is a strong indication of the need for an officially designated area. Therefore sites at or close to locations where unofficial carpool parking is occurring will be given first priority.
- Proximity and access to major commuter routes: Future increases in gasoline prices may result in carpooling in places where little or none occurs now. Thus sites within the priority areas identified which are not close to unofficial carpool parking areas but which meet a minimum standard for access (in time, distance) to and from major commuter routes will also be considered.
- Proximity to existing official carpool parking areas: Sites which would serve commuters already served by an official lot will not be considered further unless there is some likelihood that demand will exceed the capacity of the existing lot in the near future.
- Number of parking spaces available/potential for expansion: Each lot must be able to accommodate a minimum number of spaces. Sites which do not meet the standards will be rejected. Existing lots which do not pass the standards but which could be expanded to meet them will be considered to have satisfied this criterion.
- Environmental/community impact: Establishment of a parking lot on some sites might cause impacts on the natural environment (e.g. removal of trees, contaminated runoff into streams) or on nearby residential areas (e.g. increased traffic, visual blight). Each site will be categorized as to the degree of impact.
- Local transit: The availability of local transit service to a carpool site can make carpooling easier and more flexible for some people. Any sites with local transit service will be ranked higher than those without.
- Commuter transit: Commuter transit provides the opportunity for shared use of the parking lot for park-and-ride as well as park-and-pool. Thus lots with commuter service will be ranked higher.
- Access: Lots must allow for safe and convenient access.
- Exposure: The visibility of a site from major commuter routes is an important factor in encouraging its use as a parking area. All sites in the inventory have been classified as to the quality of their exposure.
- Alleviating safety/operational problems: Where a lot will alleviate a safety or operational problem it will receive a high ranking.

This factor of eight spaces per 1,000 person trips was then applied to previously estimated person trip demand summarized by major survey area. The resulting estimates are summarized by corridors in Exhibit 6.2. With the exception of Peterborough most projections seem to be reasonable. The reason for Peterborough being an exception probably lies in the fact that many of the work trips generated out of the area are destined to the auto plants in Oshawa. Because of the regular hours of these employees and the nature of their work they would be well suited to carpooling and thus may tend to exhibit a higher propensity to form carpools than would other employees within the study area. Thus, the base existing demand for Peterborough was derived from the actual number of unofficial carpoolers observed.

Exhibit 6.2 also summarizes the expected base requirements for 1981 and 1986. These projections were, in the first case, based on the assumption that a 50% increase in demand would occur in 1981 with the inception of a new fringe parking facility. This conforms to the MTC data which pointed toward a growth increase by approximately 42.5% in a five month period upon implementing a new fringe parking facility. The subsequent growth through to 1986 is based on an assumed growth in demand of 15% per year.

This table suggests that there are approximately 650 cars parking unofficially in the identified corridors. Furthermore, this table suggests that it will be necessary to provide between approximately 1,000 spaces in 1981 to approximately 2,000 spaces in 1986. (For comparative purposes, the MTC currently provides 580 spaces in the official lots and has proposed an additional 380 for completion in late 1980.) It should be pointed out, however, that in addition to meeting the total demand it is also necessary to satisfy the geographic distribution. For this reason, it will be important during

EXHIBIT 6.2

ESTIMATE OF FRINGE PARKING DEMAND

	(CURRENT UNOFFICIAL PARKING (EST.)	1.5 1981 SPACES	3.0 1986 SPACES
WE	STERN CORRIDORS			
А	Hamilton	60	90	180
В	Guelph/Cambridge/Kitchener	40	30	60
С	Halton Hills	30	50	90
D	Orangeville	20	25	45
Ε	Brampton	40	60	120
		240	330	645
NO	RTHERN CORRIDORS			
F	Barrie	20	30	60
G	Newmarket/Aurora	50	75	150
Н	Township of Georgina/E. Gwillin	mbury 50	75	150
I	Stouffville/Markham	45	70	135
		165	250	495
ΕA	STERN CORRIDORS			
J	Peterborough	70*	105	210
К	Port Perry	30	45	90
L	Oshawa/Whitby/Ajax	105	160	315
		205	310	615

* Estimated from inventory of sites. Note: Based on the assumption that lots are provided.

the implementation of these fringe parking facilities that the demand be monitored and user characteristics be derived so as to assess their impact on other lots in the area.

From the estimated demand for carpooling and the ranking of potential sites, 25 sites have been recommended for consideration. Exhibits 6.3 and 6.4 illustrate the lot locations. It is, however, important to point out that in the case of leased lots, these are tentative recommendations subject to successful negotiations with the property owners. The demand and supply characteristics at the recommended sites together with the available parking at existing official MTC lots are indicated in Exhibit 6.5.

Because the MTC Commuter Parking Lot Program has concentrated on freeway interchanges, the issue arises of how this program should be coordinated with the Fringe Parking Lot program. In this regard, it is recommended that where MTC Regional Staff identify the potential locations in or near freeway interchanges that would serve the same demand as a recommended fringe parking lot, Regional Staff should evaluate the sites so as to insure that the most appropriate site is implemented. In any such evaluation, it will be important to take account of the fact that many of the recommended fringe parking sites are existing lots that would be less costly to implement and would provide a means by which to assess actual demand prior to a major capital expenditure for a new lot.

Detailed descriptions of the recommended sites are contained in Appendix A.

EXHIBIT 6.3

RECOMMENDED FRINGE PARKING SITES

AREA	A	NO.	DESCRIPTION	LOCATION
4	HAMILTON	- 2	Confederation Park Catholic Church	Q.E.W. & Hwy. 20 King St. & Hwy 403
00	CAMBRIDGE GUELPH	(C) 48	Cambridge Mall Picnic Area	Hwy, 24, N. of Hwy, 401 Doonblair Rd. & Hwy, 401
O	HALTON HILLS	ıΩ	Georgatown Market	Hwy. 7 & Reg. Rd. 13
	ORANGEVILLE	9	Michaels Tavern Orangeville Raceway	Hwy. 10 & Hwy. 24 Hwy. 10 in Orangeville
ш	BRAMPTON	00 00	Bram Roase Square Malton GO Station	Hwy. 7, W of Heart Lake Rd. Derry Rd., E of Airport Rd.
14.	BARRIE	10	Barrie Raceway	Essa Rd. E. of Hwy 400
0	NEWMARKET	=	Upper Canada Mall	Hwy. 9 & Hwy. 11
I	YORK REGIONAL ROAD 8	13 12 4	Knob Hill Farms Esso Station Reg. Vacant Lot	Reg. Rd. 8 & Hwy. 7 Reg. Rd. 8 & Reg. Rd. 32 Reg. Rd. 8 & Reg. Rd. 74
	HIGHWAY 48	15	County Inn Restaurant Vacant Lot	Hwy. 48 & Reg Rd 15 Hwy. 48 & Reg Rd 15
3	PETERBOROUGH	17 18 19 20	Vacant Lot Vacant Lot Vacant Lot Vacant Lot	Bentsfort Rd. & Guthrie Ave. Hwy. 7 & Harper Rd. Hwy. 115 & Victoria Co. Rd. 10 Hwy. 115 & Hwy. 35
×	PORT PERRY	22	Vacant Lot Vacant Lot	Victoria Co. Rd. 2 & Co. Rd. 28 Reg. Rd. 2 & Reg. Rd. 19
_	OSHAWA WHITBY AJAX	23 25 25	Pediar Plant Harwood Place Vacant Lot	Simcoe St. & Hwy. 401, Oshawa Harwood Ave & Hwy 401, Ajax Thickson Rd. & Hwy 401, Whitby

NOTE: USE OF EXISTING PARKING AREAS ON PRIVATE PROPERTY IS DEPENDANT ON SUCCESSFUL NEGOTIATION WITH PROPERTY OWNERS

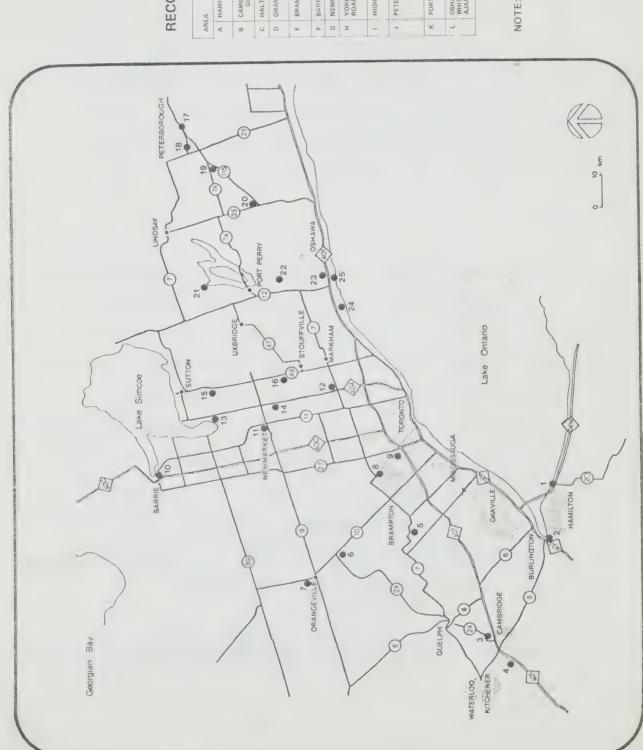
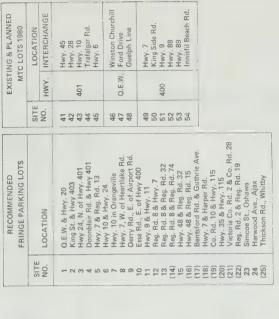


EXHIBIT 6.4 RECOMMENDED FRINGE PARKING & MTC LOTS



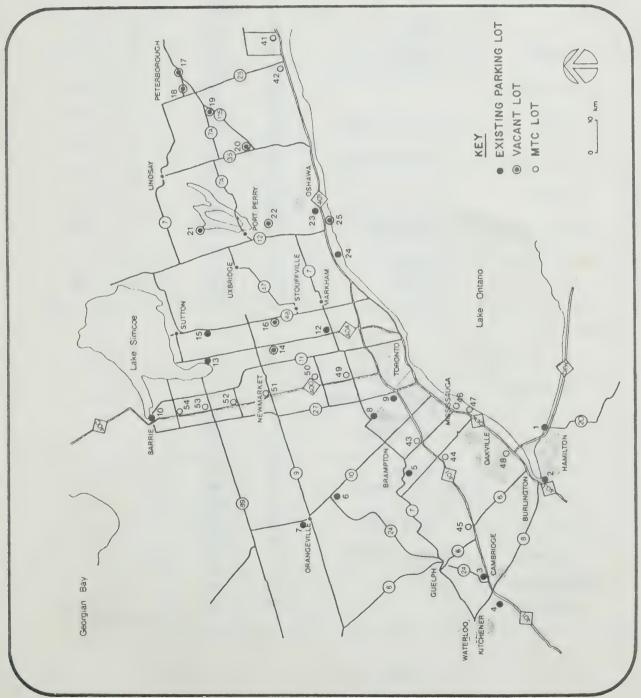


EXHIBIT 6.5

DEMAND & SUPPLY CHARACTERISTICS IN STUDY AREA

PARKING			SITE	AVAIL.	DEMA	ND
PROGRAM	AR	EA	NO	SPACES	1981	1986
	А	HAMILTON	1 2	100+ 70	90	180
	В	CAMBRIDGE GUELPH	3 4	100+ 20	30	60
	С	HALTON HILLS	5	100+	45	90
	D	ORANGEVILLE	6 7	34 100+	25	45
RECOMMENDED	E	BRAMPTON	8	100+ 150	60	120
	F	BARRIE	10	200+	30	60
FRINGE	G	NEWMARKET	11	100+	75	150
PARKING	Н	REGIONAL RD. 8	12 13 14*	100+ 12 50+	70	135
LOTS	i	HIGHWAY 48	15 16*	25 40	7 5	150
(NOT ADJACENT TO FWY.	J	PETERBOROUGH	17* 18* 19* 20*	100+ 50+ 50 50+	105	210
INTERCHANGES)	K	PORT PERRY	21* 22*	50+ 50+	45	90
AUG. 1980	L	OSHAWA- WHITBY AJAX	23 24 25*	30 100+ 100+	160	315

*VACANT LOTS

HWY 401 OSHAWA-PORT HOPE	41 42	100 56	
HWY 401	43	50	
HWY 27 — HWY 6	44	51	
Q.E.W.	46	46	
HWY 27 – HWY 6	48	250	
HWY 400	49	100	
HWY 401 - BARRIE	51	114	
	52	54	
	54	49	
	OSHAWA-PORT HOPE HWY 401 HWY 27 — HWY 6 O.E.W. HWY 27 — HWY 6 HWY 400	OSHAWA-PORT HOPE HWY 401 HWY 27 – HWY 6 Q.E.W. HWY 27 – HWY 6 46 47 48 HWY 400 HWY 401 – BARRIE 51 52 53	OSHAWA-PORT HOPE HWY 401 HWY 27 - HWY 6 O.E.W. HWY 27 - HWY 6 46 47 49 48 250 HWY 400 HWY 401 - BARRIE 51 114 52 54 53 37

Approximately 150 sites were surveyed of which approximately 100 are existing parking lots. Generally, the sites are adjacent to major commuter routes and for the most part have good access and exposure. The majority of lots have the capability to accommodate a minimum of 20 carpool vehicles and generally are adjacent to Hydro and Bell services. A large number of lots have both local and commuter transit and few would have an adverse impact on adjacent property if developed as a fringe parking lot.



7. CONCLUSIONS AND RECOMMENDATIONS

In undertaking this study a number of various issues were examined. In light of this, certain general conclusions can be drawn with regard to the development of the fringe parking program. However, these recommendations do not take full account of all ride-sharing programs currently planned or under way within MTC. It will be important to consider these ride-sharing projects presently operating or proposed and to examine the potential for a comprehensive, coordinated program.

Use of Existing Lots Vs.

Constructing New Lots for Fringe Parking

To date, the MTC has constructed fringe parking facilities. This generally conforms to the practice in the U.S., however U.S. agencies as a rule receive significant federal financial assistance, usually between 75-90%. As previously pointed out, the capital cost per space of a new parking lot can range from between \$1,000 and \$2,000, which at a 10% discount rate translates to between \$150 and \$300 per year. If it is assumed that maintenance costs are approximately \$20 per space per year, the total cost per space would then amount to from between \$170 and \$320 per year. This compares with leasing costs which, in the U.S., did not exceed \$3.00 per month per space or \$36.00 per year including maintenance.

Clearly, the leasing option is financially more attractive than the construction of new facilities. Also, leasing facilities allows for the implementation of fringe parking lots in a much shorter time frame; leased lots may take up to four months to implement whereas construction of new lots may take as long as 18 months. In some cases it is conceivable that existing lots could be used without any direct payment for the spaces designated by carpoolers.

For example, lot owners may make the spaces available free of charge in lieu of MTC being responsible for maintenance.

The exception to leasing lots would reasonably occur where, because of the importance of location, these arrangements cannot be made but land is available for construction. Furthermore, consideration should be given to constructing parking facilities whenever any major construction occurs at freeway interchanges or at major intersections. Even if a lot is not needed immediately, initial grading could be done at the time equipment is in the area. This could significantly reduce the capital cost of the parking lot.

Examples of agreements for using existing lots for carpooling are contained in Appendix B.

Consolidation of Sites

As part of conducting the inventory, various limitations were identified where unofficial parking is now taking place. In some instances, such as between Peterborough and Oshawa, many of these sites are relatively close to one another i.e. two to five miles. In light of this, and the cost of constructing and/or leasing new lots, it would seem appropriate at the outset to test the concept of consolidating usage at two or three unofficial lots into one centralized facility. So as to minimize cost, such a test would most appropriately make use of either a leased lot, or a minimum standard construction lot (gravel surface). Before undertaking such a test it would be important to determine more explicitly the travel demand patterns of the existing unofficial users as well as their willingness to relocate. This would therefore require a users' survey in advance of determining site location and size.

Marketing and Promotion

In reviewing the U.S. experience it was evident that, especially in the larger programs operated by Connecticut and California, fringe parking programs were designed and operated as part of a comprehensive area-wide ridesharing service. Often, this service involved the provision of matching services, employer vanpooling assistance, general commuter transit information, etc. One of the major reasons for this joint approach in promoting and marketing was that of the potential for a synergistic effect in that people interested in carpooling would most reasonably follow through in forming a carpool if all information on carpooling, vanpooling etc. were available from a central source. Such information might include a general handout of a "how-to" nature which would deal with insurance, potential benefits such as fuel savings, etc. This brochure as well as a map illustrating the various fringe parking locations and services, i.e. Exhibit 7.1, could be provided to interested carpoolers. California presently provides this service and markets it through a number of well distributed roadside signs which have the appropriate telephone number for people to call who are interested in forming a carpool. The advantage of this approach is that it provides for a centralized contact for all related ride sharing services and makes the most use of the available marketing tools. In this regard, consideration should be given to coordinating the marketing of fringe parking lots with other ride-sharing programs operated by the MTC. Moreover, such marketing would be of interest to various commercial establishments that might be willing to lease their lots. This, in effect, would provide them with a means of free publicity and thus make the idea of leasing unused parking spaces more attractive.

Monitoring Program

As has been pointed out, there is only a limited amount of data available on the characteristics of fringe parking lot users. This is no less

CARPOOL	1. Confeden C. Catholic King St. 3. Picar A Boon Bla 4. Cachridg Hwy 24 nn		9. Malton G just eas 10. Barrie R just eas		<u>Services</u> T - Teleph
	SAY PETERBOROUGH				o (10 km)
	Lake Simcoe	UXBRIDGE STORT PERRY		Lake Ontario	
	BARRIE L'AK	NEWMARKET	BPAMPTON BPAMPTON	TORGUTO COMMULE COMMULE COMMULE COMMULE COMMULE COMMULE COMMUNE COMMUN	BURUNGTON HAMILTON
	Georgian Bay		ORCHGE	WATERLOO GOLLPH GUELPH KITCHENER STOCKHENER STOCKHEN STOCKHENER STOCKHENER STOCKHENER STOCKHENER STOCKHENER ST	

D - To Be Used Between 6:00 a.m. - 6:00 p.m. W - Weekdays Only Restrictions 1 Transit phone

S - Shopping B - Bus Shelter

the case in the U.S. where extensive fringe parking lot construction programs have been initiated. However, in light of this lack of information and the cost of constructing new parking lot facilities, it will be important to develop an ongoing data collection program to ensure that new facilities are appropriately sized and located. Typical components of a monitoring program would include:

- annual inventories by MTC district staff of unofficial parking throughout their areas. These surveys, which would include information on demand, should be regularly submitted and reviewed by a central office wherein trends, as they relate to growth and demand, can be analyzed;
- occupancy counts at official MTC lots conducted seasonally, for one week at a time, to determine seasonal and weekly variations in demand;
- user surveys at MTC lots as well as locations in close proximity to proposed MTC fringe parking lots to determine the impact of official lots, as well as any changes in user characteristics which relate to work trip travel differences, auto occupancy rates, trip purpose characteristics etc.

Joint Use

As has been pointed out, there is a good potential for joint use of fringe parking facilities both as carpool lots and park-and-ride lots, the latter associated with commuter buses. Clearly, a parking lot which is serviced by a commuter bus is attractive to carpoolers in that it provides an alternate means of access in the event of a missed ride. Also, from an operating standpoint, there is the potential to share in the costs of providing a fringe parking lot. For this reason, emphasis should be placed on those lots that provide for joint use. Moreover, it would be worthwhile in the initial stages of implementing fringe parking lots to examine the impact of joint use of facilities. This would most appropriately be examined through both occupancy counts and user surveys.

In light of the above discussion it would seem appropriate that special consideration be given to coordinating the various ride sharing and commuter bus services presently operated by provincial and local government agencies. Typically these agencies include the Toronto Area GO Transit, MTC departments such as the Transit Office and Transit Systems R&D office as well as, where appropriate, local government agencies. Coordinating these various programs would help to ensure the highest level of success of fringe parking.

RECOMMENDATIONS

In light of the review of fringe parking in the U.S. and Ontario, the physical inventory of fringe parking sites and the assessment of various fringe parking issues, it is recommended that:

- 1. The recommended fringe parking lots illustrated in Exhibit 6.3 and described in Appendix A be used as an initial basis for negotiating with owners of existing parking lots and designing a new facilities program.
- 2. Where appropriate, preference be given to using existing lots through agreements with lot owners and not constructing new facilities. This approach would minimize the initial cost and risk of a fringe parking program.
- 3. The identification, promotion and operation of fringe parking lots be coordinated with the various ride-sharing programs presently operated by the Province and GO Transit.
- 4. Fringe parking facilities should be marketed and promoted as part of a comprehensive ride-sharing program. Specific consideration should be given to establishing an information/services centre where the general public and interested agencies could acquire information and assistance on all ride-sharing programs and/or public transportation.
- 5. Specific consideration be given to implementing joint use carpool and park-and-ride lots especially along commuter bus routes.

- 6. A regular monitoring program should be instituted to monitor and assess demand and user characteristics of both official and unofficial fringe parking facilities.
- 7. As fringe parking lots are implemented, especially in the Peterborough area, it will be important to assess the willingness of existing unofficial parkers to relocate from small poorly maintained lots to larger consolidated facilities. If centralized facilities result in a consolidation of demand, subsequent costs of the fringe parking program may be reduced.
- 8. Fringe parking facilities be considered as part of any construction program so that, as a minimum, appropriate grading can be done at minimal cost.

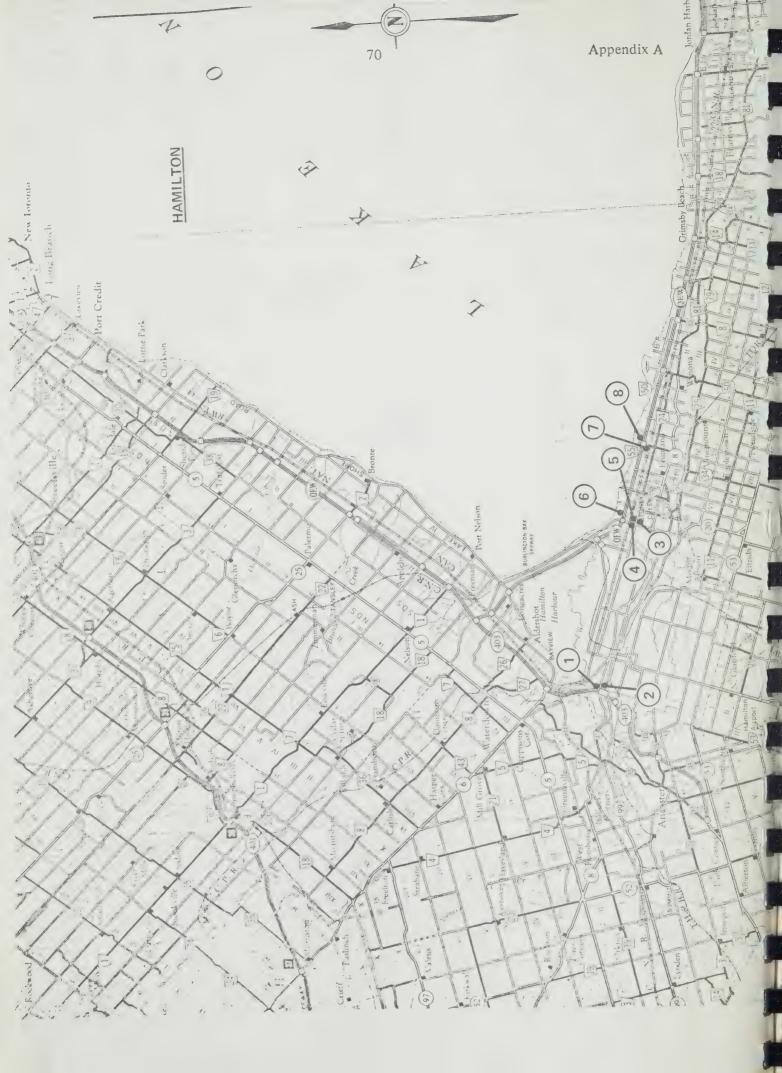


APPENDIX A

SUMMARY OF SITE INVENTORIES
AND RECOMMENDED SITES



AREA A HAMILTON



REMARKS									Land up for auc
ATRECTED LABORDER		2	9 9	S	No	N O	ر. دي	o _N	No
AC TOWN TRANSIT		× 4 ×	Yes	No	Pro Pro	310	No	No	No
AC TOUNT LOCAL		Yes	Yes	YPS	Yes	Yes	No	No	N _O
AC:ATENT BELL		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ACJACENT HYDRO		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
3541498		, 600d	5000	poog	Fair	poog	5000	Fair	puog
SUBEACTIVE ASPHALT GRAVEL SCIL			P009		Poor		Cood	000g	роод
ASPHALT		Poog		good		poog			
ACCESS		Fair	F (5)	5000	Good	Cood	Poog	poog	Poog
EXPOSURE		Fair	Fair	Cood	. poog	goog	5. 100 100 LL	poog	poog
POSSIBLE Errandian		No		No		0 <u>%</u>	No		
Avaitable SPaces		70		100+		30-40	100's		
TOTAL S ACES		09	50+ possible	100.8	50 possible	30-40	100's	100+ possible	100+
UNDFFICIAL CARPCOL PARKING		No	No	ON	NO	ON	No	No	No
EXISTING LOT ON SITE		Yes	Но	Yes	N _O	Yes	Yes	o _N	ON
LOCATION		King St at Hwy 403	King St at Hwy 403	Hwy 20 at Bart St	Hwy 20 at Be .on St (beside Albin Inn)	Hwy 20 at Barton St	Hwy 20 at North Service RJ	Fruitland Rd and South Service Rd	Fruitland Rd and North Service Rd
5176	Hamilton	Catholic Church	Park	Parkway Flaza	Vacant lot	Grand Junction Chrysler (out of business)	Confederation Park	Vacant land	Vacant land
Location No		-	ci c		į	δ,	. 6	7.	œ

GEOGRAPHIC AREA:

HAMILTON

ESTIMATED DEMAND FOR CARPOOL PARKING SITES: 1981 - 90

1986 - 180

POTENTIAL SITES (IN ORDER OF PREFERENCE)

Lot Location No.	Existing Parking Lots	Available Spaces	Potential Spaces
6.	Confederation Park	100's	100's
1	Catholic Church	70	70
3.	Parkway Plaza	100+	100+
5.	Grand Junction Chrysler	30-40	30-40

Lot Location No.	New Construction Sites	Potential <u>Spaces</u>
2.	Park-King St. at Highway 403	50+
7.	Fruitland Rd. at S. Service Rd.	100+
3.	Fruitland Rd. at N. Service Rd.	100+
4.	Vacant Lot - Barton St. at Highway 20	50

RECOMMENDED SITES

Sen Jacobs Sen Jacobs

- 6. Confederation Park (Recommended Site No. 1)
- 1. Catholic Church King Street at Highway 403 (Recommended Site No. 2)

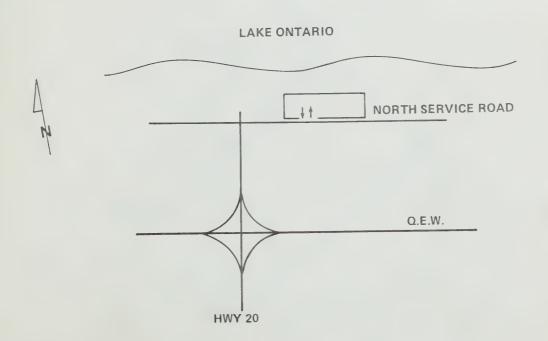
These two sites would serve two different commuter routes - the Catholic Church would serve Highway 403 and Confederation Park the QEW. Both sites are existing lots which might be leased. The Catholic Church lot is paved and the Confederation Park lot gravel.

HAMILTON

Recommended Site No. 1



Confederation Park - Q.E.W at Highway 20

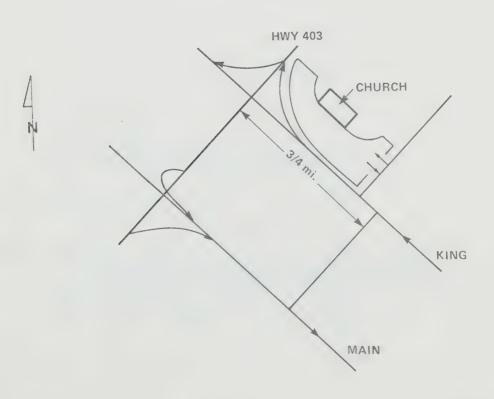


HAMILTON

Recommended Site No. 2



Catholic Church - King Street at Highway 403



AREA B
GUELPH/CAMBRIDGE



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REMARKS									
AGSALEKT TRAKSIT IMPACT OR LOGAL CORNATER AGGREST PROFERTY	Yes - Houses across street	<u>&</u> :	O.X	o _z	0	NO	No	N _O	
TORISIT DETAILER	°2	2 2	No	o _N	No	β	No	No	
Abor, Ent LOCAL	Yes	٥ ٧	S.	Yes	Yes	Yes	No	No	
ACUACENT BELL	Yes	Yes	1 mile	Yes	Yes	Yes	Yes	Yes	
BOTCENT HYDIO	Yes	Yes	1 mile	Yes	Yes	Yes	Yes	Yes	
DRAIMAGE ADDINENT ACDINENT HIDMO BELL	0000	Fair	Poor-Fair 1 mile 1 mile	good	6000	poog	poog	poog	
2011		T .	a.	Bood					
SURFACE TYPE ASPHALT GRAVEL	Fair		Poor				Cood		
SURE					poog	Poop		0009	
ACCESS	Cood	Poor	Cood	good	2000	6	0000	Sood	Cood
EXPOSURE	2000	роод	Cood	0000	pcog	3	0000	poog	Cood
POSSIBLE EXPOSURE ACCESS EXPANSION	Yes (to 30+)		(to 30+)		% 0%	Ş	2	Yes (to 40+)	61,
AVAILACIE SPALES	10-15		15-23		100+	ć	20-20	23	100.8
TOTAL	10-15	15-20	20-25	30+ possible	100's		100.1	30	100.8
UNOFFICIAL CARPOOL PARKITG	S.	No (formerly used now barricaded)	Yes (5 cars)	No	Y es	:	ON O	Yes (4 cars)	No
EXISTING LOT ON SITE	Yes	No.	Yes	No	Yes	:	Yes	Yes	Yes
LOCA*:0N	Presson Parkway, west of Nwy 8, south of Hwy 461	Northeast corner at Hwy 461 and Hwy 8 inter- change	Doon-Blair Rd at Hwy 401	Mwy 24 south of 401	Hwy 24 north of Hwy 401		Stone Rd just east of Hwy 6	Hwy 46 north of Hwy 401	Guelph Line north of Hwy 401
3118	Carteringe Peel village	Vacant MTC land	Duon-31a1e	Highway 24 South - vacant land	Canturidge Shoppers'		Stone Road Mall	Suff's Prestyterian	8. M. nowk Ro. eway
Location No.	4.	2.	က်	4	Š	q	Ö	7.	80

GEOGRAPHIC AREA:

GUELPH/CAMBRIDGE

ESTIMATED DEMAND FOR CARPOOL PARKING SITES: 1981 - 30

1986 - 60

POTENTIAL SITES (IN ORDER OF PREFERENCE)

Lot Location No.	Existing Parking Lots	Available Spaces	Potential Spaces
5.	Cambridge Shoppers' Mall	100+	100+
3.	Picnic Area Doon-Blair Rd at Hwy 401 (Cambridge)	15-20	30+
1.	Peel Village (Cambridge)	10-15	30+
7.	Duff's Presbyterian Church (Guelph)	25	40+
8.	Mohawk Raceway (Guelph)	100. s	100's
6.	Stone Road Mall (Guelph)	50-60	50-60
Lot Location No.	New Construction Sites		Potential Spaces
4.	Vacant land - Hwy 24 south o	f Hwy 401	30+
2.	Vacant MTC land - Hwy 8 north	n of Hwy 401	15-20
	RECOMMENDED SITES		

RECOMMENDED SITES

- 5. Cambridge Shoppers' Mall (Recommended Site No. 3)
- 3. Picnic Area Doon-Blair Road at Hwy 401 (Recommended Site No. 4)

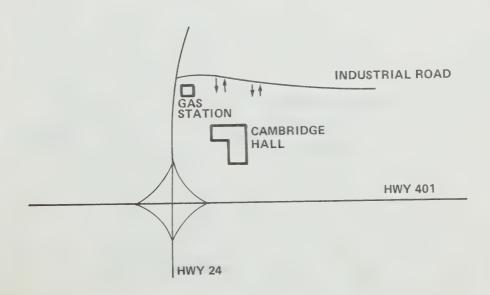
Duff's Church is ideally suited for a fringe parking lot. However, the MTC is planning to construct a carpool parking lot on MTC land south of Hwy 401 adjacent to Hwy 6. This lot would effectively serve any carpoolers who might otherwise use the lot at Duff's Presbyterian Church.

GUELPH/CAMBRIDGE

Recommended Site No. 3



Cambridge Shoppers Mall - Highway 24 north of Highway 401

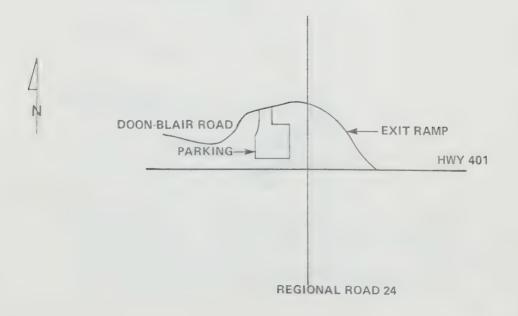


GUELPH/CAMBRIDE

Recommended Site No. 4



Picnic Area - Doon Blair Road at Highway 401



AREA C
HALTON HILLS



HALTON HILLS

· Sacration						
ADDACENT TPANSIT IMPACT ON LOCAL COMMUTER ADDACENT PROFERTY	> × ×	;	Y es	O.N.	O. W.	No
COMPLEA	о 2	3	Yes No at Hwy 7	Yes	\$ e \$	%es
ADJACI	2	2	No	No	N ₀	No
ASJACENT BELL	>	ŝ	⊀ e s	Yes	Yes	¥ es
DRAINAGE ADVACENT ASJACENT HYDPO BELL	3	s D	Yes	Yes	Yes	Good Yes Yes
DRAINAGE		0000	Fair	6000	Fair	Cood
AVALLABLE 575516LE EXPOSLAE ACCESS SUFFACE TYPE SPACES EXPACES SOLL	,	€. 15 LL.	F F	Good	in the second se	Good
CCESS A		Fair	9009	goog	5000	Fair
EXPOSURE A		Poor	Fair	poog	poog	Poor
EXPANSION			Yes	No	No	No
AVAILABLE SPACES			30-43	100's	+05	20+
TOTAL		50÷	30-40	100's	50+	100+
UNDFFICIAL CARPOOL FARAING		(4 cars)	No	No omos)	No No	NO NO
EXISTING LOT ON SITE		No	Yes	€ 8	Yes	Yes
₩C1.¥367	,	Hwy 7 at Regional Road 3	2. St. Andrew's Church Regions' Road 13 south of Hwy 7 at Sinclair St	Hwy 7 at Regional Road	4. Hollywood Tavern Hwy 7 at Regional Road	
3112	Halton Hills	Silvercreek - old Hwy 7 alignment	St. Andrew's Church	Georgetown Market (shorping mall)	Hollywood Tavern	5. Georgetown 60 Station
Location No.		ŗ.	2.	က်	4	5.

GEOGRAPHIC AREA:

HALTON HILLS (GEORGETOWN AND ACTON)

ESTIMATED DEMAND FOR CARPOOL PARKING SITES: 1981 - 45

1986 - 90

POTENTIAL SITES (IN ORDER OF PREFERENCE)

Lot Location No.	Existing Parking Lots Georyetown Market	Available <u>Spaces</u> 100's	Potential <u>Spaces</u> 100's
4.	Hollywood Tavern	50+	50+
2.	St. Andrew's Church	30-40	30-40
5.	Georgetown GO	20+	20+
Lot Location No.	New Construction Sites Silvercreek - old Hwy 7 a	alignment	Potential <u>Spaces</u> 20+
	RECOMMENDED SITES		

Georgetown Market (Recommended Site No. 5) 3.

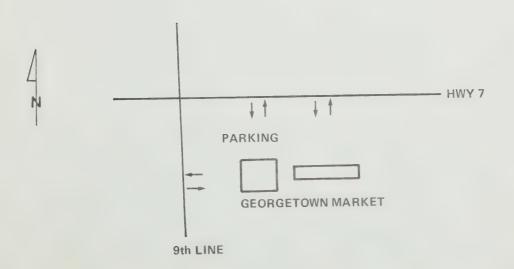
> This site is a large, paved shopping centre parking lot located at the intersection of two major commuter routes in Georgetown - Hwy 7 and Regional Road 13.

HALTON HILLS

Recommended Site No. 5

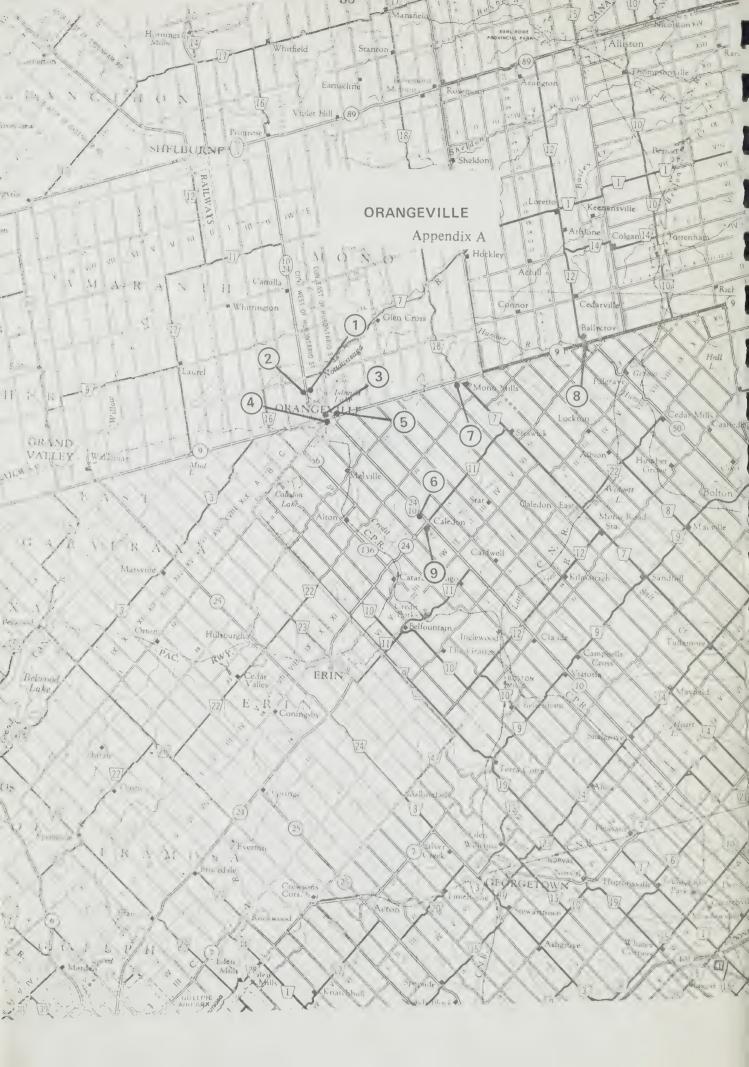


Georgetown Market





AREA D
ORANGEVILLE



ORANGEVILLE

Location No

V.		No	NO	ON.	£0	No	°N	NO	ON	
2	2	O.N.	Yes	Yes	Yes	Yes	02	No	Yes	
3	2	NO	No	. OM	0.5	700	014	No No	No	
,	50	Yes	Yes	Yes	Yes	Yes	Yes	Yes	¥ es	
	165	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	good	Good	Fair	poog	Poor	peog	Fair	Puog	Cood	
	•				Poor		pcog			
			Poor					Fair	Fair	
	good	poog		6000		Fatr				
	Good	6000	Good	Poog	2009	6000	poog	Good	Good	
	Fair	Sood	5. 10 15	Fair	Sood	goog	poog	Cood	poo9	
	No	No	No	No	0 ×	No.	Yes (to 30+)		No	
	100,2	50+	20	60-70	2-0	20			34	
	100's	150+	30	100	8-9	20	9 (00)	shculder]	40	
	No	No	No	No	Yes	ho	Yes (4 cars)	3	Yes	
	Yes	Yes	Yes	, se	Yes	Yes	No	3	c ş	(6 cars)
	Nwy 10 Orangeville	Hwy 10 Grandeville	Hwy 9 Orangeville	Hwy 9 Orangeville	Hwy 9 at Hwy 10 and	Hwy 10 north of Hwy	Southwest corner Hwy 9 at Alrport Rd		Hwy 10 at Hwy 24 Junction	
Orangeville	Orangeville Raceway New 10 Orangeville	Ocaposy()] = Mall			Varant land - Bypass Hwy 9 at Hwy 10 and	Vacant Shell Station May 10 north of May	Vacant lot		Wacant Tot	
		0	i e	. 4	5.	9	7.	(,

GEOGRAPHIC AREA:

ORANGEVILLE

ESTIMATED DEMAND FOR CARPOOL PARKING SITES: 1981 - 25

1986 - 45

POTENTIAL SITES (IN ORDER OF PREFERENCE)

Lot Location No.	Existing Parking Lots	Available <u>Spaces</u>	Potential <u>Spaces</u>
9.	Michael's Tavern	34	34
6.	Vacant Shell Station	20	20
1 •	Orangeville Raceway	100's	100's
2.	Orangeville Mall	50+	50+
↑ •	Canadian Tire Store	60-70	60-70
3.	Al's Restaurant	20	20

Lot Location No.	New Construction Sites	Potential <u>Spaces</u>
7.	Vacant lot - SW corner Highway 9 at Airport Road	30+
8.	Vacant lot - Highway 9 west of Highway 50	50+

RECOMMENDED SITES

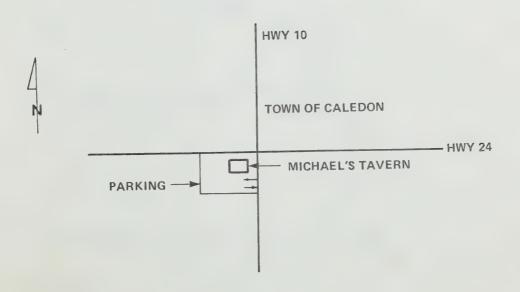
- 9. Michaels's Tavern (Recommended Site No. 6)
- 1. Orangeville Raceway (Recommended Site No. 7)

Orangeville Mall and Orangeville Raceway are located opposite one another just off the Highway 10 by-pass at the north end of the Town of Orangeville. The mall is more visible than the raceway from the by-pass, but offers fewer parking spaces and has greater potential for conflict between carpool parkers and other users of the lot. Commuters travelling east on Highway 9 from Highway 10 or south on Highway 10 would find either lot well located. Michael's Tavern is about 6 miles south of Orangeville at the intersection of Highways 10 and 24. It has a good gravel lot which is currently used by about half a dozen carpoolers.

ORANGEVILLE
Recommended Site No. 6



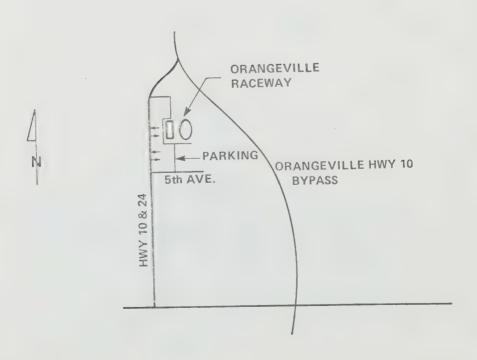
Michaels Tavern



ORANGEVILLE
Recommended Site No. 7



Orangeville Raceway - Highway 10 at north end of Orangeville



AREA E BRAMPTON



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•	Site at northeast corner of May 7 & Hwy 10 has several large trees.				Heart Leane No actions cook to the Alo			
ADIACENT ADIACENT TORUST BELL LOCAL COTRUTER ADIACENT PROPERTY	ON O	2 3	2 4	œ :	O.W.	S 0 €	NO I	Ž.
CENT TPANSIT L CONMUTER	Yes				Yes	_ ←s		\$ el
T ADJACE LOCAL	No	Yes	165	Yes	% B }	Y es	Yes	Yes
ADJACEN BELL	¥ e s	Yes	Tes	Yes	Yes	Yes	Yes	Yes
ADJACENT HYDRO	Yes	Yes	Yes	yes	Yes	Yes	Yes	Yes
ORAINAGE	Fair-Good	9000	Poog	goog	poog	P009	poog	poog
SURFACE TYPE ASPHALT GRAVEL SOIL	poog	بر در در	Fair	Poog	poog	poog	Good	6000
	poog	poog	Poog	9009	poog	poog	Cood	6 00d
EXPOSURE	9009	Poog	good	goog	poog	goog	Good	Poog
POSSIBLE EXPOSURE ACCESS EXPANSION		No.	Yes	No	Мо	No	Mo	Yes
AVATI ABLE SPACES		50	20	100,8	100°s	150	100.8	150
TOTAL SPACES	30-50+	20	20	100's	100's	400+	100.	300
UNDFFICIAL CARPOOL PARKING	N _O	No	No	No	No	No	No	Mo
EXISTING LOT ON SITE	No	¥es	Yes	Yes	Yes	Yes	Yes	Yes
100VT10H	Brampton	Steeles Avenue at Hwy 10	Steeles Avenue at Hwy 10	Shopper's World Mali Steeles Avenue at Hwy 10	Hwy 7 at Heart Lake Rd	Bramalea GO Station Steeles Avenue West of Bramalea Rd	International Centre Airport Rd at Derry Rd	Malton GC Station Derry Rd east of Airport Rd
3116	Bramoton Vacant land (3 sites)	Perl Village Golf Club	Vacant land	Shopper's World Mall	Bram Rose Square	Bramalea GO Station	International Centre	Malton GC Station
Location No	4	2	69	4	, è	ė.	7	8

BRAMPTON

ESTIMATED DEMAND FOR CARPOOL PARKING SITES: 1981 - 60

1986 - 120

POTENTIAL SITES (RANKED IN ORDER)

Lot Location No.	Existing Parking Lots	Available Spaces	Potential Spaces
5.	Bram Rose Square	100's	100's
6.	Bramalea GO Station	150	150
7.	International Centre	100's	100's
8.	Malton GO Station	150	200+
4.	Shoppers' World Mall	100's	100's
3.	Vacant parking lot - Steeles at Hwy 10	50	75+
2.	Peel Village Golf	20	20

Lot Location No.	New Construction Sites	Potential Spaces
1.	Vacant land - 3 sites at north junction Hwys 7 and 10	each site contains 30+ spaces

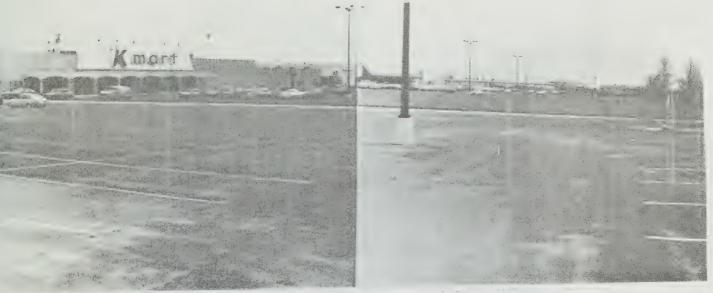
RECOMMENDED SITES

- 5. Bram Rose Square (Recommended Site No. 8)
- 8. Malton GO Station (Recommended site No. 9)

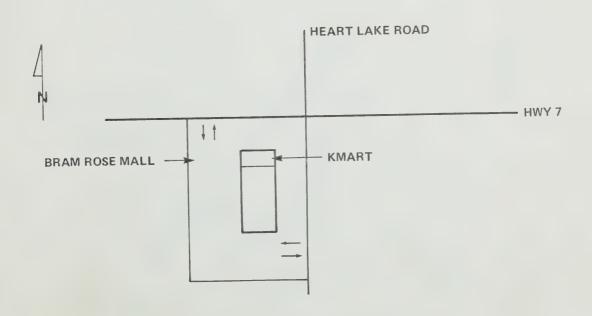
Bram Rose Square is a new shopping mall with a large parking lot. It is located at the intersection of Hwy 7 and Heart Lake Road (which is the access route to Hwy 410).

The Malton GO Station is on Derry Road just east of Airport Road. There are about 150 empty spaces in the parking lot, with adjacent land providing the potential for expansion.

BRAMPTON
Recommended Site No. 8



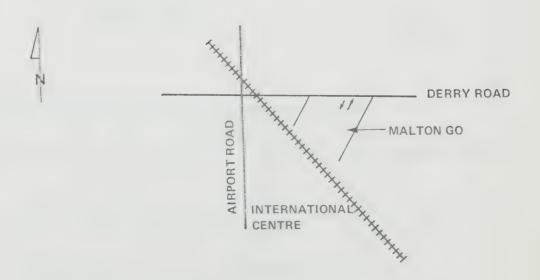
Bram Rose Square - Highway 7 just west of Heart Lake Road



BRAMPTON
Recommended Site No. 9



Malton GO Station - Derry Road just east of Airport Road



AREA F

BARRIE



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							diacent to
REMARKS							Lots of open land adjacent to existing parking areas.
IMPACT ON ADJACENT PROPERTY		Mo		No No	NO	No	CN
ADDACENT TRANSIT LOCAL COMMUTER		No	<u>Q</u>	No	No	NO	No
		N _O	No.	No	Yes	Yes	Yes
ADJACENT BELL		Yes	Yes	Yes	Yes	Yes	Yes
ADJACENT HYBRO		Yes	Yes	Yes	Yes	Yes	Yes
DRAINAGE		poog	poog	Cood	goog	Good	poog
S01L			Fair			Sood	
GRAVEL GRAVEL							
SURFACE TYPE ASPHALT GRAVEL	,	Good		Poop	Poop		poog
ACCESS		Good	good	Cood	Sood	Fair-Good	poog
EXPOSURE		Poos	Poog	Cood	poog	Good	1. 100 1.1.
POSSIBLE EXPANSION		No	No	No	No		Yes
AVAILABLE SPACES		200+	5-7	100	200+		150+
TOTAL SPACES		200+	8-10	150+	100's	20+	300+
UNOFFICIAL TOTAL CARPTOL PACKING SPACES		Possibly	Yes (3 cars)	Possibly	ho	NO	40
EXISTING LOT ON SITE		Yes	Mo	Yes	Yes	NO	Yes
LECATION		Essa Rd at Pwy 400	Essa Rd at Fairview Rd	Hwy 90 at Hwy 4CO	Hwy 27 (Bayfield St) west of Hwy 400	Hwy 27 (Bayfield St) at Hwy 400 interchange	Duckworth St east of
3116	Barrie	Barrie Raceway	Shoulder Area Essa Rd	Continental Inn	Rayfreld Mall	Vaca of land	Georgian College
Location No.		÷	2.	e,	4	ý	9

BARRIE

ESTIMATED DEMAND FOR CARPOOL PARKING SITES:

1981 - 30 1986 - 60

POTENTIAL SITES (IN ORDER OF PREFERENCE)

Lot Location No.	Existing Parking Lots	Available <u>Spaces</u>	Potential Spaces
1.	Barrie Raceway	200+	200+
3.	Continental Inn	100	100
4.	Bayfield Mall :	200+	200+
б.	Georgian College	150+	200+

Lot Location No.	New Construction Sites	Potential Spaces
5.	Vacant land - Bayfield Street at Hwy 400	50+

RECOMMENDED SITES

1. Barrie Raceway (or Continental Inn) (Recommended Site No. 10)

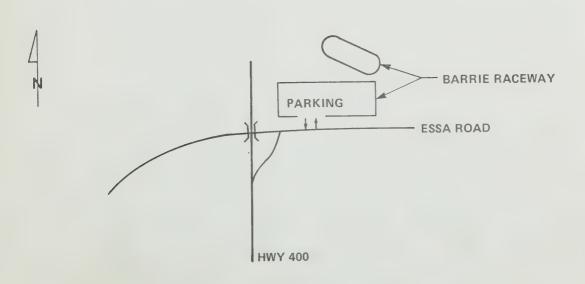
The Barrie Raceway is just east of Hwy 400 on Essa Road, which is the most southern interchange in Barrie. The large parking lot is paved and may already be used by a few carpoolers.

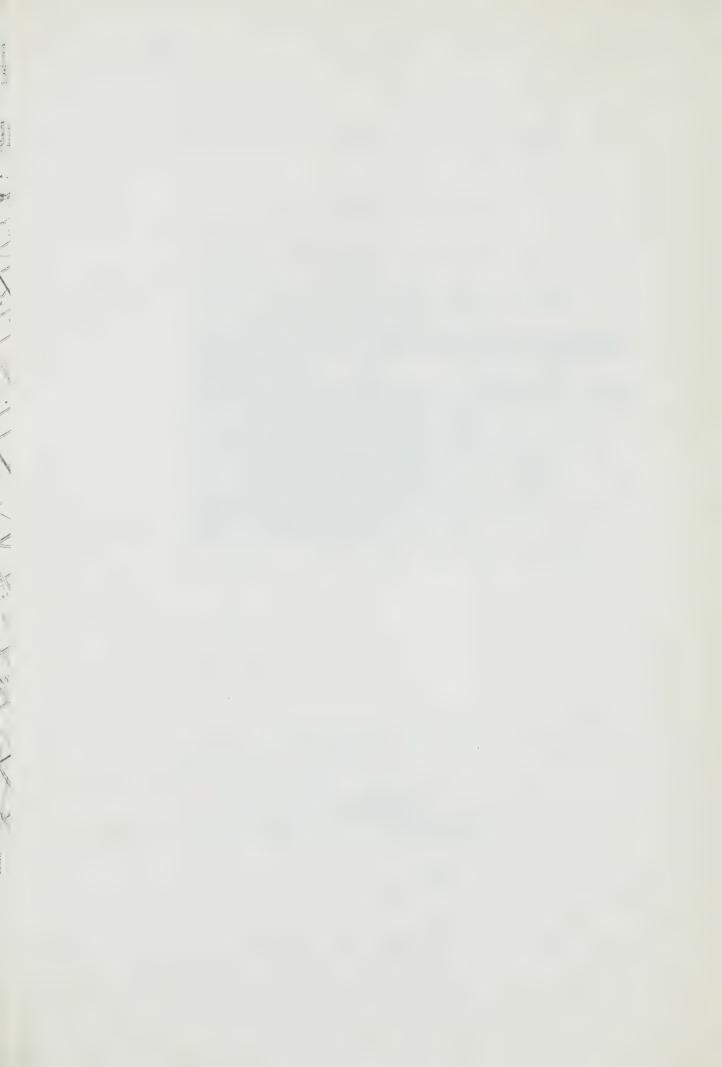
The Continental Inn is just west of Hwy 400 on Hwy 90 (one interchange north of Essa Road). It has easy access and relatively good visibility from Hwy 400.

BARRIE Recommended Site No. 10



Barrie Raceway - Essa Road just east of Highway 400





AREA G
NEWMARKET/AURORA



NEWMARKET/AURORA

NEWMARKET/AURORA

ESTIMATED DEMAND FOR CARPOOL PARKING SITES: 1981 - 75

1986 - 150

POTENTIAL SITES (IN ORDER OF PREFERENCE)

Lot Location No.	Existing Parking Lots	Available Spaces	Potential Spaces
1.	Upper Canada Mall	100's	100's
2.	Newmarket Plaza	100+	100+
4.	Aurora Shopping Centre	150+	150+
5.	Aurora Train Station	10-15	50+
5.	Aurora Community Centre	150-200	150-200
Lot Location No.	New Construction Sites		Potential Spaces
3.	Abandoned Golf Range	100+	100+

RECOMMENDED SITES

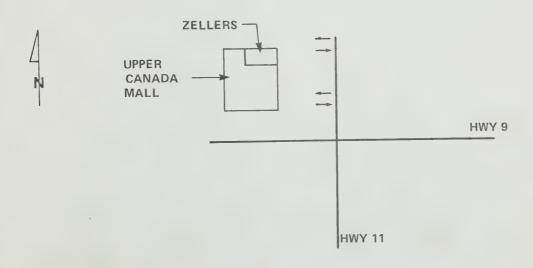
1. Upper Canada Mall (Recommended Site No. 11)

Upper Canada Mall has a very large parking lot located at the intersection of Highway 9 and 11. There is excellent access to both highways, and the Newmarket GO terminal is a short walk south of the mall.

NEWMARKET/AURORA



Upper Canada Mall - Northwest corner Highway 9 at Highway 11





AREA H
YORK REGIONAL ROAD 8 (WOODBINE AVENUE)



YORK REGIONAL ROAD 8 (WOODBINE AVENUE)

									15									
REWARKS .				Other 3 corners at this intersection are vacant lots.	Owner has 20 acres undeveloped commercial land adjacent to south.		Cars are parked on shoulder of road	Some vacant land adjacent but below road grade		Park parking lot	Owner has 3/4 acre	Vacant lot to morth looks like filled land			8P owns the land	Most of parking area is well kept grass		
THPACT DR ADJACENT PROPERTY		Мо	N O	NO	NO NO	O N	o O	No	No O	No.	No	S.	N.	Yes	No	No	No	N O
ADJACENT TRANSIT LOCAL COMMUTER		No	Yes	Mo	NO.	NO	ON	Yes	Yes	Yes	⊀e s	\$	Yes	Yes	Yes	Yes	Yes (on	Woodbine)
ADJACEA		2°	No	No	No	N N	0 	No	No	NO	O.	9	No	No	No	No	No	
ADJACENT BELL		Yes	Yes	Yes	Yes	Yes	}- Se	Y es	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	× es	Yes
ADJACCNI HYDRO		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DRAINAGE .	-	D000	71.00	Poog	, poog	poog	, 600d	Fair	Poor	Good	Fair-Good	Fatr-Sood	6000	poog	poog	poog	poog	Cood
2016		P to Pr	r. i.e.			E ee	poog	Fair	Poor	Fair			Fair	9009	Fair	Bood		
SURFACE TYPE ASPHALT GRAVEL				Cood	Good						Fatr	r is	Fair			Good	Good	Good
ACCESS		Poog	F. F.	poog	p009	poog	9009	poog	Poog	Cood	Fair	Cood	Good	poog	Poog	Good	6000	Good
POSSIBLE * EXPOSURE EXPANSION		Poor	Poor	goog	900 9	poog	600d	Poog	900g	Good	Poog	poog	P009	poog	poog	poog	Poor	P009
POSSIBLE *		Yes	No No	Yes	Yes			No		Yes	Yes (to 30)	Yes (to 50+)	No			No	No No	No
AVATLABLE		30	06	12	35			5-8		25+	ĸ	30-40	10			30	100+	100+
TOTAL		90-09	100	52	20-60	50+ possible each site	50+ possible	12-15	20+ possible	25*	15	40-50	20	50+ possible	20 possíble	30	\$000	200*
UNDEFICIAL CARFOOL PARKING		No	No	Yes (12 cars)	Yes (8 cars)	Yes (5 cars)	Yes (6 cars)	Yes (7 cars)	No	NO	No	Yes	Yes (3 cars)	NO O	No	No	No.	Possibly
EVISTING LOT ON SITE		Yes	Yes	yes.	Yes	N O	Ş.	Yes	No	Yes	Yes	Yes	Yes	· 2	No	Yes	Yes	Yes
LOCATION	,	Sth Concession north of Baseline Road	Keswick - Church Street	intersection of Regional Roads B and 32	Intersection of Regional Roads 8 and 13 (Mt. Albert Road)	NE, SE, and SW, corners Davis Drive at Regional Road B	Just south of old align- ment of Regional Road 74 (Vivian Sideraad) at Regional Road B	Intersection of Regional Roads B and 15 (Aurora Rd)	Regional Road 7 just south of Pegional Road 15	Regional Road 7 in Vandorf	Regional Road 7 in Vandorf	Intersection of Regional Roads B and 40 (Bloomington Road).	Intersection of Regional Roads B and 14 (Stouffwille Road)	Just south of inter- section of Regional Roads 8 and 14	Intersection of Regional Roads 8 and 14	Regional Road 8 in Victoria Square	16th Avenue just west of Regional Road 8	Intersection of Hwy 7 and Regional Road 8
3116	York Regional Road 8 (Woodpine Avenue)	Georgina Civic Centre	North Gwillimbury Momorial Centre {arena}	Esso Station	Longhorn Inn	Vacant land (3 sites)	Vacant land *	Wesley United Church	Vacent lot	Whitchurch Township Park	Vandorf Garage	Stage Coach Restaurant and Tavern	Gormley Centre (shopping plaza)	Vacant land a	Vacant land beside ~ BP station	Victoria Square United Church	Buttonville Airport	Knob H111 Farms
Lot Location No.		4	5	ઌ૽	4	ý.	ý	7.	.89	თ	10.	#.	12.	13.	14.	15.	16.	17.

YORK REGIONAL ROAD 8 (WOODBINE AVE)

ESTIMATED DEMAND FOR CARPOOL PARKING SITES: 1981 - 70 1986 - 135

POTENTIAL SITES (IN ORDER OF PREFERENCE)

Lot Location No.	Existing Parking Lots	Available Spaces	Potential Spaces
11.	Stagecoach Restaurant Knob Hill Farms	30-40 100+	50+ 100+
9. 4. 16. 3.	Whitchurch Township Park Longhorn Inn Buttonville Airport Esso Station (Regional Road 8	35 100+ 3 12	50+ 100+ 25+
15. 2.	at Regional Road 32) Victoria Square United Church North Gwillimbury Memorial Centre	30 90	30 90
1.	Georgina Civic Centre	30	50
Lot Location No.	New Construction Sites		Potential Spaces
5.	Vacant land - Regional Road 8	3	50+
	at Regional Road 31 Vacant land - south of old ro Vivian Sideroad (Regional Roat Regional Road 8		50+
7.	Vacant lot - just south of Recon Regional Road 8	egional Road 15	20+
13.	Vacant land - just south of F on Regional Road 8	Regional Road 14	50+
14.	Vacant land - beside BP at Re on Regional Road 8	egional Road 14	20
	RECOMMENDED SITES		
17.	Knob Hill Farms or Buttonvil (Recommended Site No. 12)	le Airport	
3.	Esso Station Regional Road 8 (Recommended Site No. 13)	at Regional Roa	d 32
5.	Vacant Land Regional Road 74 (Recommended Site No. 14)	at Regional Roa	d 8

Knob Hill Farms is a grocery store with a large paved lot at the intersection of Highway 7 and Woodbine Avenue (Regional Road 8). Buttonville Airport, which also has a large paved lot, is a short distance north just west of Woodbine. There may be a greater potential for carpool parking to conflict with existing uses at Knob Hill Farms than at Buttonville Airport.

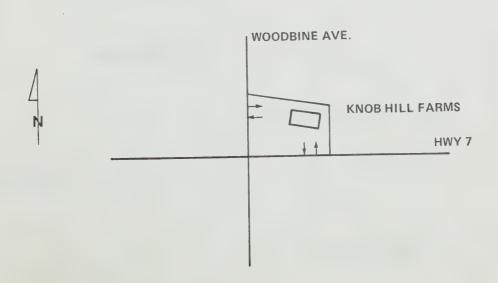
The Esso Station could accommodate the needs of carpoolers in the area around Keswick.

^{*} Some lots were not ranked because they did not meet minimum size standards.

REGIONAL ROAD 8
Recommended Site No. 12



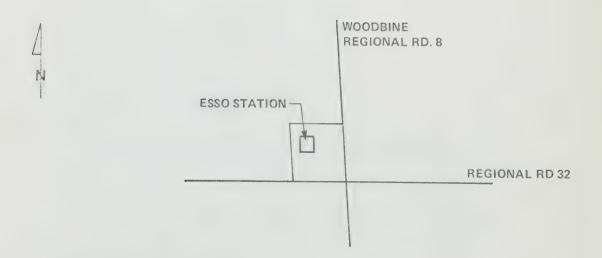
Knob Hill Farms - Woodbine Ave. at Highway 7



REGIONAL ROAD 8



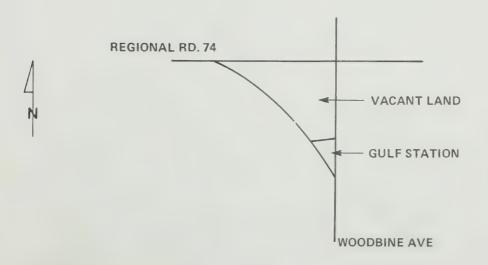
Esso Station - Woodbine Avenue at Regional Road 32



REGIONAL ROAD 8
Recommended Site No. 14



Vacant land, Regional Road 74 at Regional Road 8





AREA I

HIGHWAY 48



								is owned by		1	.21						
REMARKS .				Part of lot probably required by General Store		NW corner is for sale		Sandy area adjacent to payed lot is owned by	ממינים במינים במינים מיני ויי וכן פיני	Several small trees on property		Owned by MTC			Canadian Tire Stone with lot adjacent	Land is for sale.	
IMPACT ON ADJACENT PROPERTY		No	Yes	₩	Мо	2	No	No	No	Yes	Yes	Yes	No	No	No	Yes	, es
ADJACENT TRANSIT LOCAL CONMUTER		Yes	Yes	Yes	Yes	Yes	Yes	, Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		610	No	No	No	No	Мо	No	S.	No	No	No	No	No	No	No	No
ADJACENT		Yes	Yes	Yes	Yes	Yes	Yes	Yes	y. es	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ADVACENT HYDRO		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DRAINAGE		, Good	Good	Fair	poog	Poor on SE & SW corners	0000 ON NH	Fair	Poor-Fair	goog	Good	Good	poog	p009	Good	Fair	r e
S01L						£ +6 :	9		Poor P	poog	Poog	Poor				poog	Poor
SURFACE TYPE ASPHALT GRAVEL			Fair	Fair	Fair			Fair					Fair				
ASPHALT		Cood	Fair		poog	Fair	i e	P009	Fair					p009	poog		Fafr
ACCESS		Cood	poog	poog	poog	poog	900g	роод	Poog	poog	poog	poog	P009	0000	0009	D000	D000
EXPOSURE		Poor	D000	poog	D000	P009	poog	poog	Fair	Poog	роод	poog	Fafr	poog	Poog	p009	6000
POSSIBLE EXPANSION		No		No	Yes (to 75+)		ON.	Yes (to 40+)					No	N	o _N		res (to 30+)
AVAILABLE SPACES		100		15	20		15	22				,	100	100	48		10
TOTAL		100	30-40 possible	15	20	50+ possible	10	30	30+ possible	25 possíble	30-40 possible	30-40 possible	100	200	20	· 50+ possible	.15
UNDEFICIAL CARPCOL PARKING		Mo	Yes (6 cars)	No	No	No	Yes (2-3 cars)	Yes (1 car)	No	No	No	Yes (3 cars)	No	(Some GO commuters)	No	No	ů,
EXISTING LOT ON SITE		Yes	No	Yes	Yes	No	Yes	Yes	No .	M _O	Мо	No	Yes	Yes	» «	No	٧ ع م
LOCATION		Cedar St Sutton	Hwy 48 and High St (Sutton)	Hwy 48 in Baldwin	Hwy 48 Just south of Baldwin	Intersection of Hwy 48 and Regional Road 32	Intersection of Hwy 48 and Regional Road 32	Hwy 48 1 mile south of Regional Road 32	Regional Road 13 at Hwy 48 (east side)	Northwest corner Hwy 48 at Regional Road 15	Southeast corner Hwy 48 at Regional Road 15	Southwest corner Hwy 48 at Regional Road 15	Just, south of Hwy 47 on Park Dr. S.	Hwy 47 at west end of Stouffyille	Hwy 47 across from Stouffville Plaza	Southeast corner Hwy 48 and Regional Road 14	Hwy 48 and Regional Road 14
SITE	Hwy 48	Sutton Arena	Old Road Alignment	Sunoco Station and General Store	:8 Motor Hotel	Vacant land (3 sites)	Shell Station	Country Inn Restaurant	Old road alignment	Facant land	Vacant land	Former Commercial Property	Stouffwille Arena	Stouffville Plaza	Sign of the Steer (small plaza)	Vacant land	BP Station and restaurant
Location No.		÷	2.	က်	4	ń	o [°]	7.	ώ	o o	10.	÷	12.	13.	. 4 f	15.	16.

HIGHWAY 48

ESTIMATED DEMAND FOR CARPOOL PARKING SITES: 1981 - 75

1986 - 150

POTENTIAL SITES (IN ORDER OF PREFERENCE)

Lot Location No.	Existing Parking Lots	Available Spaces	Potential Spaces
7. 4. 1. 13. 14. 12.	Country Inn Restaurant 48 Motor Hotel Sutton Arena Stouffville Plaza Sign of the Steer Stouffville Arena BP Station and Restaurant	25 50 100 100 50 100	50 75+ 100 100 50 100 30+
Lot Location No.	New Lots		Potential Spaces
5.	Vacant land - Highway 48		50+
2.	at Regional Road 32 Old road alignment - Highway	/ 48 at	30-40
9.	High Street (Sutton) Vacant land - NW corner High	nway 48	25
10.	at Regional Road 15 Vacant land - SE corner High	nway 48	30-40
11.	at Regional Road 15 Former gas station property SW corner Highway 48 at Reg	- Vacant land ional Road 15	30-40

RECOMMENDED SITES

- Country Inn Restaurant (Recommended Site No. 15) 7.
- Vacant land SW corner Highway 48 11. at Regional Road 15 (Ballantrae) (Recommended Site No. 16)

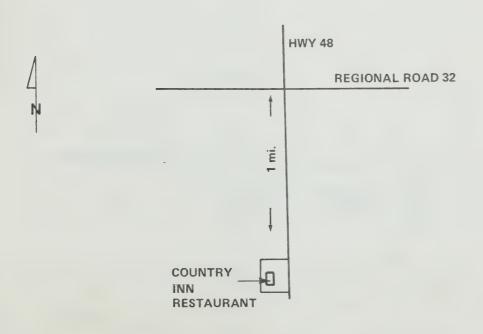
The Country Inn Restaurant is on Highway 48 just south of Regional Road 32. As such, it is a good location for Georgina Township commuters using Highway 48. The restaurant has a small paved lot and a larger parking area of sand and gravel. The restaurant and some adjoining property are currently for sale.

The vacant land at the southwest corner of Highway 48 and Regional Road 15 is a former commercial property which was purchased by MTC to allow improvements to be made at this intersection. A few carpoolers use this property for parking. The Town of Whitchurch-Stouffville has recommended that MTC designate the surplus portion of this land as a carpool parking area.

HIGHWAY 48
Recommended Site No. 15



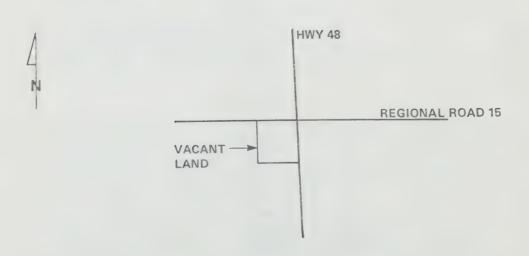
Country Inn Restaurant - Highway 48, 1 mile south of Regional Road 32



HIGHWAY 48
Recommended Site No. 16



Vacant land, Southwest corner Highway 48 at Aurora Road (Regional Road 15)



AREA J

PETERBOROUGH AND HIGHWAYS 35 AND 115



12 12 12 12 12 12 12 12	Larger area available on northeast corner (land below road grade)
12	Yes
12	No
12	o _N
12	Y es
12	Yes
12 (10 50) 12 (10 50) 13 (10 50) 14 (10 50) 15 (10 50) 16 (10 50) 17 (10 50) 18 (10 50) 19 (10 50) 19 (10 50) 19 (10 50) 19 (10 50) 19 (10 50) 19 (10 50) 19 (10 50) 19 (10 50) 19 (10 50) 19 (10 50) 19 (10 50) 19 (10 50) 19 (10 50) 19 (10 50) 19 (10 50) 10 (10 50)	Poog
12 (to 50) Good Good Good Fair Fair 6000 Good Good Good Good Good Good Good G	bood
12 SYACES SYACES 12 SYACES	
12 SYACES SYACES 12 SYACES	poog
12 SYACES SYACES 12 SYACES	Good
12 SYACES SYACES 12 SYACES	
e e side	9-14
50+ 50+ 50+ 50+ 50+ 50+ 50+ 50+ 50+ 50+	10-15
UNDUFFICIAL CAMPONL PANKING (18 cars) No	Yes (1 car)
EXISTING (witdened shoulder) No No No No No No No No No N	ON O
SITE (DOCATICN Peterborough and Hwys Guithile Avenue Hwy 7 Bypass and Bensfort Rd Wedent land ("sites) N.W. and S.E. Conners of N.W. and S.E. Conners of Manda S.W. Corner Randa S.W. Corner Randa S.W. Corner Randa S.W. and S.E. Street Randa S.W. W.E. S.E. South S.W. and S.E. Street Avent land and hwy 115 and hwy Southest corner Hwy 13 Southest corner Hwy 13 Southest corner Hwy 13 South Station and Mwy 115 and Hwy 135 Junction Massist In Restaurant South of Junction Massist In Restaurant South of Junction Massist In Restaurant South of Junction Massist In May 135 and 115 2 miles Massist In Massist In May 135 and 115 2 miles Massist In Mas	Victoria Rd 12 and Hwy 35 (southwest corner)
	Vacant land
2. Lot No. 11. 12. 13. 13. 13. 13. 13. 13. 13. 13. 13. 13	4

PETERBOROUGH AND HIGHWAYS 35 AND 115

ESTIMATED DEMAND FOR CARPOOL PARKING SITES: 1981 - 105

1986 - 210

POTENTIAL SITES

Lot Location No.	Existing Parking Lots	Available Spaces	Potential Spaces
10.	Shell Station and	15	50
11.	Oasis Inn Restaurant Noonie's Restaurant and Hotel Kawartha Downs	25 100's	30+ 100's
Lot Location No.	New Construction Sites		Potential Spaces
1.	Bensfort Road at Guthrie Aver	nue	100+
2.	(NW & SW corners) Hwy 7 By-pass at Bensfort Ro	ad	50+
3. 5. 6.	(NE & SE corners) Hwy 7 By-pass and Harper Road Hwy 28 and Hwy 115 (SW corner Inside interchange Hwy 28 and	^)	30+ 100+ 50+
8. 9. 12. 13. 14.	(north side) Hwy 115 and Peterborough County Hwy 115 and Hwy 35 junction 2 miles south of Hwy 115 and Hwy 7A at Hwy 35 (west side) Victoria Road 12 at Hwy 35 (Hwy 35 junction	40-50 50+ 40-50 20+ 15

RECOMMENDED SITES

1.	Bensfort Road at Guthrie Avenue
	(Recommended Site No. 17)
2.	Hwy 7 By-pass and Harper Road
	(Recommended Site No. 18)
8.	Hwy 115 and Peterborough County Road
	(Recommended Site No. 19)
9	Hwy 115 and Hwy 35 junction

(Recommended Site No. 20)

Hwy 7 By-pass/Harper Road and Bensfort Road/Guthrie Avenue are locations heavily used by carpoolers. Both have sites suitable for the construction of a fairly large parking lot. Consideration should be given to two alternatives: 1) building lots at both sites; or, 2) building a lot at only

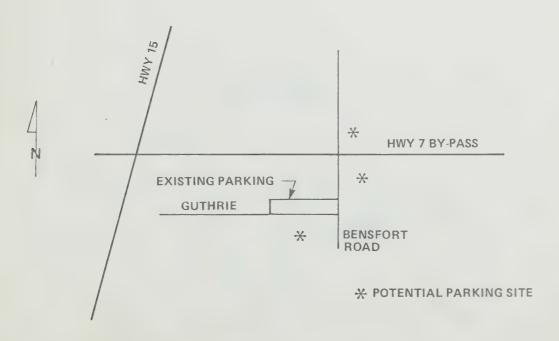
10

one site to accommodate the total demand.

PETERBOROUGH



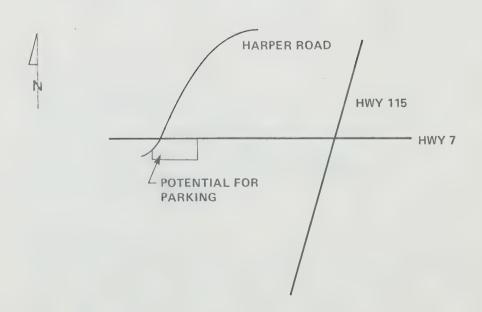
Vacant Lot, Bensfort Road at Guthrie Ave.



PETERBOROUGH



Vacant Lot, Highway 7 By-pass at Harper Road

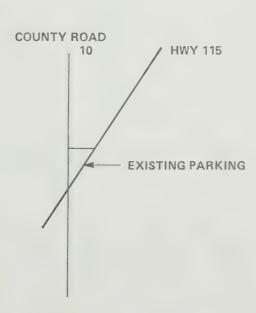


PETERBOROUGH



Vacant Lot, Highway 15 at Peterborough County Road 10

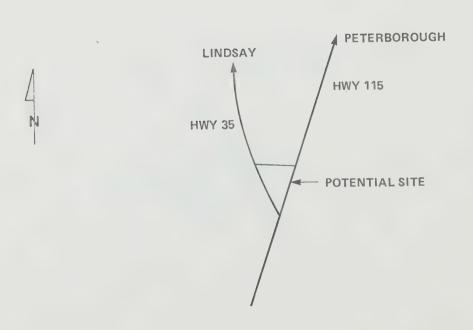




PETERBOROUGH



Vacant Lot, Highway 115 and Highway 35 Junction



The intersection of Peterborough County 10 and Hwy 115 is another location which serves many carpoolers. The land on which parking now occurs could be used for construction of an official lot, though some expansion of the current area would be needed to accommodate any increase in demand. Alternatively, there are other vacant parcels of land at this intersection.

At the junction of Hwys 115 and 35 there is a large v-shaped piece of land which has excellent visibility and access. A few carpoolers park on a gravel area at one side of the site.



AREA K

PORT PERRY



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107

				llowance?		MTC owns land at this corner (*	is leased to a trailer sales company		
REMARKS				MTC road allowance?		MTC owns 1	is leased		
IMPACT ON ADJACENT PROPERTY	N O	Š	Yes	No	ν.	. v	o _N	, Yes	No
ADJACENT TRANSIT LOCAL COMMUTER	No	Wo.	NO	No	N _O	No	No	No	Mo
	No	S.	9	%	Mo	No	No	No	No No
ADJACENT BELL	Yes	Yes	Y es	Yes	Yes	Yes	Yes	Yes	Yes
ADJACENT HYDRO	Yes	Yes	× e	Yes	Yes	Yes	Yes	Yes	Yes
DRAINAGE	Good Fair-Good	poog	p009	, poog	poog	Fair Fair-Good	Good	Cood	Good
SURFACE TYPE ASPHALT GRAVEL SOIL	poog	9009	Fair-Good	Fair Good	poog	Fair	Poog	Fatr Good	p009
ACCESS	2009	poog	Poog	Cood	Poog	Good	p009	poog	p009
EXPOSURE	poog	Good	9009	Good	Good	Poog	poog	Good	Good
EXPANSION EXPANSION			Yes						
SPACES			25-30						
SPACES	50+ possible	50+ possible	25-30 (total both lots)	50 possible	50+ possible	20 possible	8-10 possible	20 possible	50+ possible
LOTOR SITE CARPOOL PARKING SPACES SPACES EXPASSION ACCESS	Yes (3 cars on 12th Line shoulder)	Yes (6 cars on Road 28 shoudler)	Yes (2 cars parked on area in front of church)	Мо	Yes	\$ a \	>- es es	Yes	Yes
OT ON SITE	NO	No O	s = >-	No	No	No	No	No	No
	Durham Road 2 at Scugog 12th Line (southeast corner)	Intersection of Victoria Rd 2 & 28 (southeast corner)	Scugog lith Line at Hwy 47	Junction of Hwys. 47 & 12 (southwest corner)	Durham Road 7 at Hwy 7A (west side)	Durham Road 57 at Hwy 7A	Durham 57 at Durham 19	Durham 2 at Durham 19 (northeast corner)	Durham 2 at Durham 19 (southeast corner)
Port Perry Area	Vacant land	Vacant land	Greenbank United Church and lanson Park	Varant land	Vecant land (road allowance)	Old road alignment	Vacant land (road allowance)	Vaca it land (road allowance)	Vacant land
Location No.	÷ (ci	က် .	4 1	<u>எ</u>	Q	,	œ (ත

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GEOGRAPHIC AREA:

PORT PERRY

ESTIMATED DEMAND FOR CARPOOL PARKING SITES: 1981 - 45

1986 - 90

POTENTIAL SITES (IN ORDER OF PREFERENCE)

Lot Location No.	Existing Parking Lots Greenbank United Church &	Available <u>Spaces</u> 25-30	Potential Spaces 40-50
J •	Ianson Park		
Lot Location No.	New Construction Sites		Potential Spaces
1.	Durham Road 2 at Scugog		50+
2.	12th Line (SE corner) Victoria Road 2 at Victoria	Road 28	50+
5. 9.	(SE corner) Durham Road 7 at Hwy 7A Durham Road 2 at Durham Road	1 19	50+ 50+
6. 8.	(SE corner) Durham Road 57 at Hwy 7A Durham Road 2 at Durham Road (NE corner)		20 20
7.	Durham Road 57 at Durham Roa	ad 19 10	
	RECOMMENDED SITES		
2.	Victoria Road 2 at Victoria (Recommended Site No. 21)		
9.	Durham Regional Road 2 at Di (Recommended Site No. 22)	urham Regional	Road 19

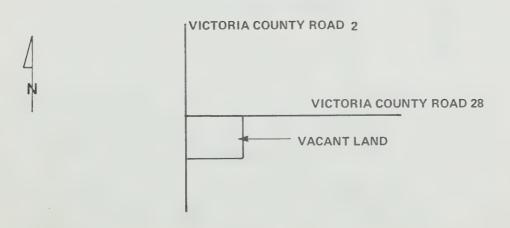
As many as 10 or 12 carpoolers park on the shoulder at the intersection of Victoria Roads 2 and 28, which is north of Port Perry. The southeast corner of this intersection is vacant land which would be suitable for construction of a parking lot.

A few carpoolers park near the intersection of Durham Roads 2 and 19. Durham 2 is the main route to Oshawa for commuters from Port Perry and areas north of the town. Durham 19 is used by people from east of Port Perry as an acccess route to Durham 2. The southeast corner of the intersection is a large vacant area on which a parking lot could be constructed.

PORT PERRY
Recommended Site No. 21



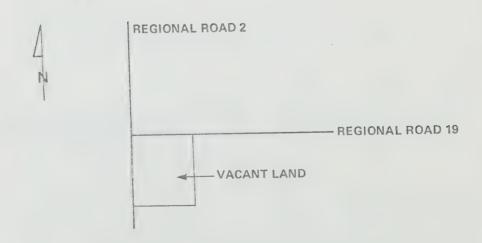
Vacant Lot Victoria Road 2 at Victoria Road 28



PORT PERRY
Recommended Site No. 22



Vacant Lot, Durham Regional Road 2 at Durham Regional Road 19, SE Corner



AREA L OSHAWA/WHITBY/AJAX



REMARKS						No access to Hwy 401 at												
IMPACT ON ADJACENT PROPERTY	O.	No	No	No.	Yes	No No	No	Мо	No	No	No	Yes	No	No	No	NO	Мо	NO
ADJACENT TPANSIT LOGAL COPMUTER	NO NO	No	Yes	Yes	No	Yes	N O	No	No	Yes	٧٥٩	Yes	Yes	Yes (% mile)	No	No	e s	Yes
	Yes	Yes	Yes	Yes	Yes	Yes	Mo	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes
ADJACENT BELL	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	yes	Yes	Yes	Yes
ACJACENT HYDRO	¥ S	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DRAINAGE	po 09 .	poog	Cood	Poog	Good (Poor around lot)	Poog	6000	Poor-Fair Poor-Fair	Good	9000	Good	Poog ,	poog	Poog	Fair	Fair-Good	poog	· poog
E TYPE SRAVEL SOIL	5. 40. 10. Lo.	9009		Fair			Fair	Poor-Fair		F	in the second				Fair Fair	Fatr		
SURFACE TYPE ASPHALT GRAVEL	poog		Poog		Good	poog			Poog			Good	600d	9009			Poog	6000
ACCESS	Good	poog	Good	Poog	poog	Poor	poog	poog	pcog	p009	poog	poog	poog	Good	6000	Poog	000g	Poog
EXPOSURE	poog	6 000	good	poog	Good	Cood	P009	Poog	poog	p009	p009	Fair	poog	Fair	P009	Cood	Good	poog
POSSIBLE EXPANSION			No	No	Yes	No			No	O.N.		No	NO	No		Yes	No	Yes (to 50)
AVATLABLE			Mone	30	20	100's			100+	100+		52	100's	20		20	40-50	15
TOTAL	100 possible (parallel on shoulder)	50+ possible	100+	20	54	100's	100+ possible	100+ possible	100's	100+	30+ possible	25	100's	09	30+ possible	20	70-80	30
URAFFICIAL CARPOOL PARKING	res (3 cars)	No	Yes	No	NO	Possibly	Wo.	No	NO	NO	NO	NO	N N	No	N _O	No	No	N O
EXISTING LOT'ON SITE (No	μ, γ,	Yes	Yes	Yes	Yes	o.	No	Yes	Yes	1	Yes	Yes	Yes ,	NO	Yes	Yes	že.
LOCATION .	Hwy 401 and Harmony Rd (south side)	Hwy 401 and Harmony Rd {north side, south of Bloor St}	Simcoe St at Hwy 401	Simcoe St at Hwy 401	Park Rd at Hwy 401 (north side)	Stevenson Rd north of Hwy, 401	Thickson Rd at Hwy 401 (south side)	Thickson Rd at Durham Rd 36 (east side)	Thickson Rd 1 mile north of Hwy 401	Brock St at Hwy 401 (adjacent to Whitby GO Station)	Brock St at Hwy 401 (across street from 60)	East of Harwood Ave north of Hwy 401	Harwood Ave is mile south of Hwy 401	Church St about 3/4 mile north of Hwy 401	Taunton Rd and Brock Rd	Brock Rd 1½ miles north of Hwy 401	Brock Rd at Hwy 2	Brock Rd at Hmy 2
SITE Oshawa - Whitby - Ajax	Old entrance ramp	Vacant land	Oshawa GO Station	Pedlar Plant site v	Grace Lutheran Church	Oshawa Shopping Centre	Vacant land	Vacant land	Whitby Mall	Abandoned Morks Yard.	Vacant land	Ajax Baptist Church	Harwood Place/Ajax GO Station (shopping centre & mall)	Pickering Village Arena	Vacant land	Centennial Neighbourhood Park	Pickering Municipal Offices	89/Pickwick Tavern
Location No.	<u>.</u>	જં	က်		4	ທ່	ġ	7.	ej ej	Ġ	0	11.	12.	13.		13.	16.	17.

GEOGRAPHIC AREA:

OSHAWA/WHITBY/AJAX

ESTIMATED DEMAND FOR CARPOOL PARKING SITES: 1981 - 160

1986 - 315

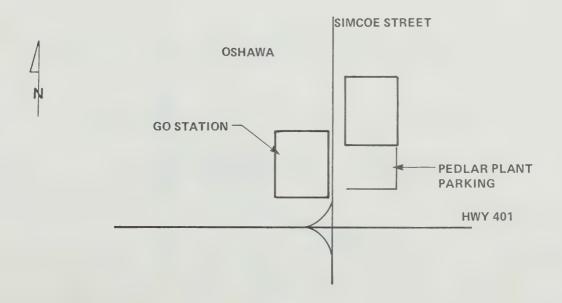
POTENTIAL SITES (IN ORDER OF PREFERENCE)

Lot Location No.	Existing Parking Lots	Available Spaces	Potential <u>Spaces</u>
4. 13. 6. 9. 10. 17. 18. 5. 14. 16.	Pedlar plant site, Oshawa Harwood Place/Ajax GO Station Oshawa Shopping Centre Whitby Mall Abandoned works yard Pickering Municipal Offices BP/Pickwick Tavern Grace Lutheran Church Pickering Village Arena Centennial Neighbourhood Park Ajax Baptist Church	100+ 100+ 40-50 15 50	50 100's 100's 100+ 100+ 40-50 50+ 50 50+ 25
Lot Location No.	New Construction Sites		Potential Spaces
1.	Old entrance ramp - Harmony I	Ro ad	100
2.	at Hwy 401 Harmony Road at Hwy 401 (nor Thickson Road at Durham Road	th side) 36	50+ 100+
11.	(east side), Whithy Brock Street - west side acr	oss	100+
7. 15.	from Whitby GO Thickson Road at Hwy 401 (so Taunton Road (Durham Road 4)	outh side), Wh at Brock Rd.	itby 100+ 30+
	RECOMMENDED SITES		
4. 13. 7.	Pedlar Plant Site, Oshawa (R Harwood Place, Ajax (Recomme Vacant Lot, Thickson Road at (Recommended Site No. 25)	ended Site No.	24)

Harwood Place is a large shopping mall about 1/2 mile south of Hwy 401 on Harwood Avenue. It has a very large parking lot, and the Ajax GO Terminal is located in the parking lot of an older shopping centre immediately to the north.



Pedlar Plant, Simcoe St. just north of Highway 401 (across from GO Station Oshawa)



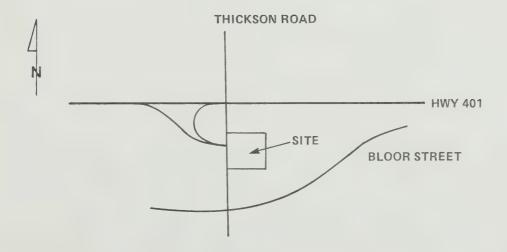


Harwood Place, Ajax





Vacant Lot, Thickson Road at Highway 401 (south side), Whitby



The Pedlar Plant is a former factory now being demolished. There is now a parking lot of about 50 spaces on the site, which is across Simco Street from the Oshawa GO terminal. Redevelopment plans for this site have not been decided yet, but it is probable that acquisition of space for carpool parking would be relatively expensive.

At his Thickson Road Interchange there is a vacant area of land lying between Hwy 401, Bloor Street and Thickson Road. Some of this land will be used in the reconstruction of this interchange, but an area suitable for a carpool lot will probably remain after the reconstruction. Although the site does not appear to be used by carpoolers, it does have potentially good access and is just west of Oshawa.

AREA M
METROPOLITAN TORONTO



																		100 B
Location No	** **		LOT ON SITE	EXICTING UNDEFICIOL LOT ON SITE CARPOUL PARKING	707% 7G SPACES	Avate Aput SPACES	Exercised Exercised	POSTINE EXPLICIAL ACCESS	ACCE SS	SUSFACE TYPE ASPHALT GRAVEL	GOAVEL SOIL	DRATHAGE	A5 1 FST H1080	SELL BELL		5	CONTURER ADDALEN	ANJAGENT TERASIT IMPACT ON LUCAL COSTOTER ADDICENT PROPERTY
	Metro I comis - may																	
÷	אלבטי זיים בשיייים אלה	in Southeast corner Sheppard and Mornin, side	Yes	O.V.	20-30	20-30	Мо	6000	Cood	Fair		0000	Yes	Yes	Yes		No	No
2	Vacart and	Northerst orear Shepperd	0	₩ 0	33-40 possible			Good	poug		9009	Cood	Yes	u4 ⊕ ≽–	Yes	~	NO NO	ON NO
ю́	Centennial C: lege	Parithum of and Pay 401 (south size,	Yes	N _O	100's	1000	No No	Fair	6000	Poog		Poog	Yes	Yes	(Marsham	2		0 %
4	Howard Johns 7 &	Markham Rd and Hwy 401 (south side)	Yes	0 %	200	100+	No	Poog	poog	p009		6000	Yes	Yes	Yes	No		МО
ů.	Saints Peter & Saultinian Straight		γ e s	No	150+	150+	NO	F	poog	poog		9009	Yes	\$ \$\dots\$	× 8	pt 0		ON.
9	Scarborduge Town to the term of the term o	Progress Rd south of Hwy () 401.	Yes		200∻	2004	No	Fair	porg	p009		p009	Yes	Yes	Yes	Yes		No
7	Agincourt Wall	Sheppard at Kennedy	Yes	No	100's	100+	Мо	poog	Spood	600d		Pood	S a k	Yes	Yes	No		No
80	Hotel Canatitra	Kennedy Rd at Hwy 401 (north side)	Yes	. No	200	150	No	0000	0000	poog		poog	Yes	Yes	Yes	양		No *
б	MTC Yand 'near	Kennedy Rd at Hwy 401 (north side)	No	N	50 poss151e			poog	poog		0000	Cood	Yes	Yes	Yes	Мо		ON
.0	Hydro ROW .	Warden Ave south of Hwy 401	No	Мо	50+ possible			P009	poog		0000	D0003	Yes	Yes	Yes	No		No
11.	Eaton's/Mirac'e Mart	Sheppard Ave at Victoria Park Ave	Yes	%0	250*	100	No	D009	poog	P0 09		poog	Yes	Yes	Yes	No		ON
12.	Dominion Store and Plaza (north site)	Victoria Park Ave at Consumer's Rd	Yes	0	100	20	No	роод	P009	poog		puog .	Yes.	× es	Yes	0 0.	z	No
13.	The Church of 51.	Victoria Park Ave at Hwy 401 (south side)	Yes	0N	80	20	No	Poog	Good	5000		Good	Yes	Yes	Yes	No	Z	No
14.	Fairview Hell reast	Shippard Ave at Don Valley Parkway	Yes	0	300*	100+	No	600d	Fair	Poog		poog	Yes	Yes	Yes	ON.	z	CN
15.	Ortole GO Station	Leslie St at Hwy 401	Yes	No	220	30	Mo	0000	6000	poog		poog	Yes	Yes	Yes	Yes	2	No
16.	A & P Plaza	Leslie St at Nymark Ave	Yes	No	200+	100	No	Pood	Gord	Poog		Cood	Yes	Yes	Yes	No	z	No
17.	Matric Paris Corestry Division	y Sheppard Ave at Leslie St	Yes	No	909	40	. No	Fair	Good		Fair	poog	Yes	Yes	Yes	No	z	No
18.	Bayview Village Mall	1 Sneppard Ave at Bayview Ave	ve Yes	Possibly	100's	150+	No	6000	Cood	Cood		Good	Yes	Yes	Yes	No	20	No Several
19.	Irinity Pre 25 " ran	(south side)	res	No	80-90	80-90	No	poog	poog	poog	Fair	Good	Yes	Yes	Yes	No	-	Yes
20.	St. Margaret's Church	ch Avenue Rd at Wilson Ave	Yes	Possibly	35	17	No	6000	Cood	Fair	Poor	Fair-Good	Yes	Yes	Yes	No	Z	No Several
21	Downsview United	Kiele St north of Hwy 401 at Tilbury Rd	Yes	° N	52	20	No	poog	Cond	Cood		Coed	Yes	Yes	Yes	No	Z	No
22.	Downsylpm Flata	Wilson Ave at Keele St	Yes	No	100's	80*	N	Pood	2009	poog		Good	Yes	Yes	Yes	No	~	NO
23.	Canadian Tire Store (north side,	Keele St at Hwy 401	Yes	WO.	\$602	804	No	poog	poog	Fatr		Poog	Yes	Yes	Yes	No	~	No
24.	Temple Day Care	Queens Dr. off Jane St south of Hwy 401	Yes	No	100	100	N	Poor	Fair	Cood		poog	Yes	Yes	Yes	No	_	No
25.	MTL Freid Office	Jane St and Maple Leaf Or	Yes	No	40	35	Yes	Good	Fair		pnog	Cood .	Yes	Yes	Yes	Мо	Z	No :
26.	Christian Reformed	Albion Rd north of Hwy 401	1 Yes	No	09	9	No	Good	poog		Fair	Good	Yes	N GI	Yes	Q _N	-	s s
27.	Security Control	Islington Ave at Elrhurst	Yes	NO	20	80	Yes (under Hydro ROW)	0.009	P009		Fair	Good	Yes	⊬ es	Yes	9 Z	z.	° C
28.	Peadule Plaza (back lot)	All at Gerganoat	y Yes	N	100's	100+	No	Fair	Cood	Poog		Cood	Yes	Yes	Yes	Ко	_	ON.
29.	Etabicake North 60 Stallon	Off Belfield Rd west of Kipling	Yes	O N	115	None	Yes	Poor	Fair	0000		poog	Yes	Yes	Yes	Yes	-	NO NO
30.	International Centre	۵	Yes	No	100's	100's	No	Good	poog	poog		Cood	Yes	Yes	Yes	Yes	-	No
31.	Malton GS Station	Derry Rd east of Airport	Yes	NO	300	150	Yes	p005	poog	p 0009		poug	Yes	× es	Yes	Yes		OM
32.	Hydri RCE	Dixon Rd at Hmy 401 (north side)	No No	N _O	100+ possible			boog	poog		P009	Pood .	Yes	Yes	Yes.	ž		o _N

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APPENDIX B SAMPLE LEASE AGREEMENTS

SAMPLE 1

PARK AN	ID POOL	LOT	AGREEMENT	NO.	
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THIS AGREEMENT, DATEDI	IS BETWEEN
THE CALIFORNIA STATE DEPARTMENT OF TRANSPORTATIO	N, HEREIN-
AFTER REFERRED TO AS "CALTRANS", AND	
HEREINAFTER REFERRED TO AS "OWNER",	

1. PURPOSE

The purpose of the Agreement is to provide a portion of Owner's premises as a staging area for persons interested in participating in carpools, vanpools, or other ride-sharing vehicles.

2. PREMISES

Owner hereby licenses CALTRANS to use that portion of Owner's premises marked "Park & Pool" on attached map, marked "Exhibit A", and made an express part of this Agreement.

3. TERM

The term of this Agreement shall be from the beginning date hereof and terminate on ______. Either party may, however, terminate this Agreement by giving 30 days' written notice to the other party of its intent to terminate.

4. USE OF THE PROPERTY

The specified park and pool staging area may be used as a parking lot by persons traveling in carpools or other ride-sharing vehicles. CALTRANS will, at its own expense, place signs and painted stripes, with the Owner's advance pproval, to designate the specified staging area. Upon termination of this Agreement, CALTRANS will remove the signs and obliterate the stripes.

5. ACCESS

CALTRANS may use the Owner's property surrounding the premises for vehicles and pedestrian access and circulation for persons in carpools.

6. MAINTENANCE

CALTRANS will provide reasonable maintenance for the designated staging area and improvements thereon. Owner agrees to notify CALTRANS promptly of defects in parking areas which could give rise to third party injury or damage, even though CALTRANS may make periodic inspections of the premises.

7. GOVERNMENTAL CHARGES

CALTRANS will have no obligation to pay any taxes, assessments, or governmental charges against the premises.

8. INSURANCE

CALTRANS will, at all times during the term of this agreement, take out and keep in force at its own expense, (a) public liability insurance to protect CALTRANS and Owner, their officers, agents and employees against any liability to the public, incident to the use of, or resulting from, injury to, or death of, any person caused by or resulting from the installation, maintenance or use of said "Park & Pool" area in the amount of not less than \$300,000 to indemnify against the claim of one person and in the amount of not less than \$300,000 against the claims of more than one person resulting from any one occurrence; (b) property damage liability insurance to protect CALTRANS and Owner, their officers, agents and employees against any liability for damage to property, including property of Owner, caused by or resulting from the installation, maintenance, or use of said "Park & Pool" area in the amount of not less than \$300,000 for each occurrence.

9. STATE RESPONSIBILITY FOR PROPERTY DAMAGE TO ASSETS OF OWNER

CALTRANS assumes responsibility to correct any losses or damages to property of Owner caused (or resulting) from installation, maintenance, or use of Owner's property as a Park & Pool area to a limit of \$10,000 but not to exceed the amount to replace damaged property and materials with those of like kind and quality.

By

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

OWNER:	
Ву	
Title	
Property Address:	
Number of Spaces:	

SAMPLE 2

THIS PERMIT AGREEMENT, made this day of 19, by and between Michigan, hereinafter referred to as the "GRANTOR", and the Michigan State Highway Commission, hereinafter referred to as the "COMMISSION", is for the purpose of granting to the COMMISSION a permit for the use of the hereinafter described property as a "Carpool Parking Lot";

WITNESSETH:

WHEREAS, the COMMISSION, acting through the Michigan Department of State Highways and Transportation, hereinafter referred to as the "DEPART-MENT", desires to establish a "Carpool Parking Lot" to be used by the general public for parking vehicles when commuting; and

WHEREAS, the land desired for the Carpool Parking Lot is described in Exhibit "A", attached hereto and made a part hereof;

NOW THEREFORE, it is hereby agreed by and between the parties hereto

- 1. The GRANTOR hereby assures the COMMISSION that it is the legal owner of the land described in Exhibit A and is empowered to grant the use of said property for a carpool parking lot.
- 2. The GRANTOR hereby grants permission to the COMMISSION for the Department to establish a Carpool Parking Lot located within the area described in Exhibit A, said area being hereinafter referred to as "PROPERTY".
- 3. The GRANTOR hereby grants permission for use of the property as a Carpool Parking Lot for a consideration of one dollar (\$1.00) to be paid by the COMMISSION.
- 4. The GRANTOR makes no representation that the zoning ordinance permits the use of the property for a Carpool Parking Lot.
- 5. The COMMISSION, for and in consideration of being granted permission to use the land described in Exhibit A hereof for the sole purpose of a carpool parking lot, hereby agrees to pay to the GRANTOR the sum of one dollar (\$1.00).
- 6. The COMMISSION shall comply with any statutes, ordinance, regulation or rule which may be applicable to the operation of the Carpool Parking Lot on the Property.
- 7. The COMMISSION will provide any supervision which it deems appropriate and may adopt such rules and regulations with respect to the use of the Property as the Department deems appropriate.

- 8. The COMMISSION shall provide any upkeep or maintenance necessary for the use of the property for a Carpool Parking Lot and shall keep the area in a reasonably neat and clean condition, disposing of any trash or abandoned property which may be disposed of or left on the property. The Department shall provide which will restrict users to parking in the specified property and shall not barriers which will restrict users to parking property.
- 9. The COMMISSION will at its sole expense undertake and complete any improvements which may be necessary for the use of the property, it being any improvements which may be necessary for the use of the property, it being understood and agreed that no buildings or structures of any kind are to be placed understood and agreed that no buildings or structures of any kind are to be placed understood and agreed that no buildings or structures of any kind are to be placed on, or allowed to be placed on the property, in addition, the topography of the land on, or allowed to be placed on the property, in addition, the topography of the land on, or allowed to be placed on the property, in addition, the topography of the land on, or allowed to be placed on the property, in addition, the topography of the land on, or allowed to be placed on the property, in addition, the topography of the land on, or allowed to be placed on the property.
- 10. The COMMISSION may resurface the property at its own expense, and without any obligation on the part of the GRANTOR for reimbursement. The GRANTOR shall have no obligation to maintain or repair any portion of the subject premises.
- 11. The COMMISSION shall pay the GRANTOR's annual cost to ensure the GRANTOR against the risk of bodily injury liability and property damage liability arising out of the COMMISSION's use of the premises described in this agreement.

The basis for the annual cost, whether it be for purchased insurance, self-insurance, or a combination of both, shall be for insured limits of no more than:

\$1,000,000	each occurrence for bodily injury liability and
	each occurrence for property damage liability;
	or combined bodily injury and

b. \$1,000,000 each occurrence for combined bodily injury and property damage liability.

The cost for the above described insurance, shall be paid by the COMMISSION to the GRANTOR upon receipt by the COMMISSION of a written quotation from an insurance Company to provide said coverage.

In the case of self-insurance, the COMMISSION shall pay to the CRANTOR the cost of such self-insurance after proof of said cost is received by the COMMISSION.

Upon obtaining the above noted insurance, the GRANTOR shall furnish the COMMISSION with a copy of the policy or a certificate of said insurance.

IT IS HEREBY FURTHER AGREED THAT:

- 12. The COMMISSION shall comply with the Prohibition of Discrimination in State Contracts, set forth in Appendix A, attached hereto and made a part hereof.
- 13. The permit herein granted by the GRANTOR may be revoked and terminated by the GRANTOR at any time without prior notice.
- 14. This Permit Agreement shall be for an indefinite term. The COMMISSION may terminate this permit Agreement on written notice to the GRANTOR. On termination of this permit Agreement the Department shall on request of the GRANTOR erect such fences or construct such barricades as to prevent the further use of the property by any party as a Carpool Parking Lot.
- 15. Upon termination of this Permit Agreement, by either party here to and if so requested by the GRANTOR, the COMMISSION will, to the extent reasonably possible, return the property to a condition similiar to that when the permit was granted.
- 16. This permit agreement shall become binding upon the parties hereto and of full force and effect upon being signed by the duly authorized representatives of the GRANTOR and the COMMISSION.

IN WITNESS WHEREOF the parties hereto have caused this permit agreement to be executed the day and year first above written.

TITLE:	
MICHIGAN STATE	HIGHWAY COMMISSION
BY:	
TITLE:	



